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WASHINGTON AGRICULTURAL STATISTICS 1986-87

STATE OF WASHINGTON
OFFICE OF THE GOVERNOR

OLYMPIA
98504-0413

BOOTH GARDNER
GOVERNOR

To the citizens of Washington state:

It gives me great pleasure to join the Washington State Department of Agriculture and the Washington Statistics Service in presenting to you this factual view of Washington's number one industry -- agriculture.

Agriculture is a mainstay of our state's economy. This report is evidence of the tremendous productivity and diversity of agriculture in this state and its importance to every Washington citizen.

A strong state economy depends on a strong agricultural economy. The current, accurate information on agriculture found in this bulletin and other reports issued throughout the year is vital to me and others in agriculture, government and business as we make decisions to help encourage the development of this state's economy.

My travel in Japan, Korea and Taiwan with Director Al Pettibone and agriculture industry leaders is just one sign of the commitment this state has made to assist agriculture identify new markets and expand current ones for Washington commodities and products. Working together, we can assure that Washington agriculture is a healthy, growing industry in the years to come.

I am pleased to have this opportunity to join Director Pettibone in thanking all those who volunteered the vital information that makes this important publication possible.

Sincerely,

Booth Gardner,
Governor

C. ALAN PETTIBONE
Director

STATE OF WASHINGTON
DEPARTMENT OF AGRICULTURE
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Washington is often characterized by the diversity of its agriculture. The importance of that diversity was reinforced in 1986 as we saw great variations in how different sectors of the agricultural economy fared. Cash grain farmers experienced another year of dramatically lower prices while the value of fruit and vegetable crops reached record highs. Overall, there was a slight improvement in our state's agricultural economy. Total farm value of agricultural production increased one percent to $3.06 billion. The average debt-to-asset ratio for all Washington farms dropped 1.5 percent to 22.6 percent and the percentage of farms with a negative income was 27 percent, an improvement of 3 points.

While the current situation is far from rosy, I think the future looks very good for Washington agriculture. The Department of Agriculture is working to assist Washington agriculture wherever it can. We continue to make our regulatory and service programs as efficient and responsive as possible. The department now has overall responsibility for food and agricultural trade development within state government and we are focusing our marketing efforts on Japan, Korea, Taiwan, Southeast Asia, Europe and Scandinavia.

Washington Agricultural Statistics is our annual summary publication and part of an extensive schedule of reports issued by the Washington Agricultural Statistics Service. This statistical program is a joint effort of the Washington State Department of Agriculture and the National Agricultural Statistics Service. Through this cooperative arrangement, we are able to provide a comprehensive program of agricultural data without duplication of resources.

The data for this publication were supplied voluntarily by thousands of state farmers, ranchers, agri-businessmen and others. Each of those individuals has my sincere thanks for the important role they played in making this publication and other agricultural reports possible.

Sincerely,

C. Alan Pettibone

C. Alan Pettibone
Director

WASHINGTON AGRICULTURAL STATISTICS

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TABLE OF CONTENTS

GENERAL

	Page
Value of Production	4
Rank of Principal Commodities	5
Washington's Rank in Agriculture	6
Number of Farms and Land in Farms	7
Crop Reporting Districts	7
Record Highs and Lows	8-9
Prices Received	10-11
Prices Paid	12-14
Index of Prices Received and Paid	15
Farm Economics	16-17
Farm Labor	18
Floriculture	19-21
Usual Planting and Harvesting Dates	22
Estimates Schedule	108

FIELD CROPS

General Information	23
Acreage, Production, Price and Value	24-25
All Wheat	26-27
Winter Wheat	28-29
Spring Wheat	28-29
Winter Wheat, 1985-86	30-31
Spring Wheat, 1985-86	32-33
Barley	34-35
Barley, 1985-86	36-37
Oats	38-39
Corn, All	40
Corn for Grain	41
Corn for Silage	42
Hay	43
Hay, 1985-86	44-45
Dry Beans	46-47
Potatoes	48-50
Mint	51-53
Hops	54
Seeds	55
Seeds, 1985-86	56-57
Rapeseed	58

FRUITS

General Information	59
Production, Price, and Value	60-61
Utilized Production	62
Harvesting Costs	63
Apples	64
Refrigerated Space	65
Grapes	66-67
Apricots	68
Peaches	68
Sweet Cherries	69
Bartlett and Other Pears	70
Prunes	71
Filberts	72

VEGETABLES

Acreage, Production, and Value	72-73
Asparagus	74
Carrots	75
Sweet Corn	76
Green Peas - Processing	77
Snap Beans - Processing	78
Mushrooms	78
Dry Onions	79
Lettuce	80

BERRIES

Acreage, Production, and Value	81
Berry Prices	82
Black Raspberries	82
Strawberries	83
Red Raspberries	84
Blueberries	85
Cranberries	86
Cultivated Blackberries	86

LIVESTOCK

General Information	87
Value of Production, 1982-86	88
Inventory and Value	89
Cattle and Calves	90-91
Cattle on Feed	92-93
Milk Production, Utilization, and Value	94
Milk Cows and Milk Production	95
Dairy Products	96-97
Hogs	98-99
Sheep and Lambs	100-101
Poultry	102-103
Mink	104
Honey	105
Livestock County Estimates	106-107

VALUE OF PRODUCTION

Washington's value of production of all agricultural commodities during 1986 was $3.06 billion, 1 percent more than 1985 and 7 percent less than the 1984 record value of $3.28 billion. Since 1970, the State's value of production has increased over three and one-half times with the sharpest gain being during the 1970-73 period as the value of production doubled in 4 years. The period 1973-78 remained steady at $1.8 to $2.3 billion. Since 1979, value of production has fluctuated between $2.6 and $3.2 billion.

Field crops with a combined value of $1.06 billion continued to be the number one category during 1986. This category represented 35 percent of the total value, down 14 percent from a year ago. Wheat, usually the number one commodity, fell to third position in 1986 as apples, moved ahead of wheat. Value of production for field crops has suffered drastic reductions during the past two years as 1986 is only 70 percent of the 1984 record of $1.51 billion. Cash grain growers bore the largest share of the decline in farm production value, but on the positive side, our specialty crops such as dry peas, lentils, potatoes, and spearmint reflected good gains over 1985.

Fruit crops contributed a record $680 million, 39 percent above 1985's frost damaged crops and 36 percent higher than the previous 1983 record of $502 million. Apples added a lion's share at $489 million, or 72 percent of the total fruit value, and set a new record high for 1986. Apples took the spotlight as the most important value of production commodity in 1986. Other fruits which established record values of production were Bartlett and Winter Pears, sweet cherries, grapes, and apricots.

Value of production for vegetable crops at $162 million was up 4 percent from the previous record year of 1985 at $156 million. Asparagus, number one vegetable commodity at $40.6 million, was slightly below the 1985 record value of $42.4 million. Also, carrot growers produced their largest crop and received a record value of $12.3 million.

Berry growers contributed $25.1 million during 1986 with red raspberries leading the way with $10.5 million. Unusually cold weather during the winter of 1985-86 resulted in a high incidence of freeze damage, reducing the State's berry output. However, record high prices were received for black raspberries, red raspberries, and strawberries.

Livestock and livestock products, at $886 million, is virtually unchanged from 1985, but is 6 percent below 1984's record value of production. Milk was ranked as the commodity with the second highest value of production for 1986. Production was slightly higher than the previous year, but the season average price was down 29 cents per cwt. The total value of production for milk was $469 million, a decrease of 2 percent from 1985.

Washington's agriculture is very diversified. Forty individual commodities have been listed that have a combined value of $2.84 billion, or 93 percent of all agricultural commodities produced in Washington. The table on page 5 presents these top 40 commodities.

Value of Production, Washington 1/

Year	Field Crops	Fruit & Nuts	Vege-Tables	Seed Crops	Berry Crops	Total Crops	Specialty Products	Livestock & Products	State Total
	1,000 Dollars								
1972	534,548	162,486	49,983	20,278	11,863	779,158	49,599	348,901	1,177,658
1973	915,653	220,901	60,733	32,434	15,356	1,245,077	123,016	455,104	1,823,197
1974	1,068,376	239,328	83,711	31,021	12,951	1,435,387	122,699	447,605	2,005,691
1975	1,077,227	208,846	93,933	26,045	12,747	1,418,798	120,356	454,375	1,993,529
1976	920,547	283,467	92,295	30,320	14,988	1,341,617	108,776	483,460	1,933,853
1977	753,390	361,917	86,718	27,073	18,176	1,247,274	149,987	487,483	1,884,744
1978	955,076	417,810	103,679	35,325	20,840	1,532,730	141,595	602,144	2,276,469
1979	1,012,707	457,566	127,098	31,969	21,905	1,651,245	186,000	765,929	2,603,174
1980	1,432,130	369,823	119,527	41,795	17,263	1,980,538	160,400	810,984	2,951,922
1981	1,411,703	438,382	138,790	31,975	22,279	2,043,129	173,192	881,843	3,098,164
1982	1,356,088	388,951	144,915	N/A	28,788	1,918,742	170,089	892,485	2,981,316
1983	1,484,640	502,141	138,770	N/A	26,750	2,152,301	179,020	908,434	3,239,755
1984	1,508,748	461,495	149,682	N/A	21,985	2,141,910	195,398	939,523	3,276,831
1985	1,229,998	490,021	155,976	25,195	28,652	1,929,842	215,693	885,151	3,030,686
1986	1,056,476	680,496	162,274	25,867	25,096	1,950,209	222,685	886,278	3,059,172

1/ Seed crops not available for 1982-1985 due to program modifications.

Rank of Principal Commodities

Commodity	Rank 1986	Rank 1985	Value of Production			% Change 1986 vs 1985
			1984	1985	1986	
			1,000 Dollars			
Apples	1	3	326,220	348,740	489,280	40
Milk	2	1	466,845	478,471	468,980	-2
Wheat	3	2	553,208	437,333	297,968	-32
Cattle and Calves	4	4	339,578	287,784	294,337	2
Potatoes	5	5	293,164	219,524	266,385	21
Hay	6	6	235,141	219,278	173,877	-21
Nursery & Greenhouse Products	7	8	100,000	98,000	90,000	-9
Barley	8	7	143,325	110,448	74,250	-33
All Pears	9	9	55,428	69,126	72,754	5
Sweet Cherries	10	14	40,654	36,527	59,437	63
Hops	11	10	86,732	66,002	57,504	-13
Eggs	12	12	67,803	55,103	55,577	1
Asparagus	13	13	37,454	42,443	40,612	-4
Grapes	14	20	20,853	20,642	37,120	80
Chickens & Broilers	15	15	36,876	34,060	36,049	6
Corn, Grain	16	11	69,750	57,240	35,700	-38
Corn, Silage	17	18	26,450	26,620	27,000	1
Lentils 1/	18	21	11,882	18,270	26,637	46
Mint Oil	19	17	25,196	26,862	25,509	-5
Sweet Corn, All	20	16	21,240	27,240	24,531	-10
Onions	21	23	20,344	13,540	23,770	76
Green Peas, Processing	22	19	26,932	23,616	20,431	-13
Dry Edible Peas 1/	23	24	15,743	12,981	18,054	39
Kentucky Bluegrass Seed	24	28	-	8,356	13,407	60
Carrots	25	26	10,941	11,257	12,270	9
Dry Edible Beans	26	25	12,585	12,922	12,127	-6
Alfalfa Seed	27	22	-	14,127	10,537	-25
Red Raspberries	28	27	8,047	9,433	10,509	11
Peaches	29	31	9,239	7,365	8,760	19
Mink	30	30	6,928	7,910	8,085	2
Hogs	31	32	8,992	7,223	7,227	0
Strawberries	32	33	5,424	6,971	6,500	-7
Mushrooms	33	34	5,186	5,229	6,263	20
Cranberries 2/	34	29	5,706	8,214	5,550	-32
Sheep, Lambs & Wool	35	35	2,590	3,479	3,696	6
Prunes	36	40	2,716	2,240	3,329	49
Apricots	37	-	1,665	1,508	3,319	120
Lettuce	38	39	3,373	2,717	3,175	17
Wrinkled Seed Peas	39	-	-	-	2,498	-
Oats	40	37	3,672	3,218	2,467	-23

1/ Dry Edible Pea, and Lentil data for 1984 are provided by the American Dry Pea and Lentil Association.
2/ The 1986 value estimated using 1985 price.
- Not Available.

Washington's Rank in the Nation's Agriculture

Item	Rank Among States 1986	Rank Among States 1985	Washington Production	Unit	Percent of U. S.	Leading State
			1,000 Units			
Crops						
Hops	1	1	35,496	Lbs.	72.5	Washington
Spearmint Oil	1	1	1,859	Lbs.	69.9	Washington
Peppermint Oil	2	2	970	Lbs.	22.4	Oregon
Potatoes, Fall	2	2	60,180	Cwt.	19.4	Idaho
Barley	5	4	45,000	Bu.	7.4	North Dakota
Wheat, All	7	7	116,850	Bu.	5.6	Kansas
Dry Edible Beans	8	7	670	Cwt.	2.9	North Dakota
Alfalfa Hay	17	18	1,974	Tons	2.2	Wisconsin
Fruit						
Sweet Cherries	1	1	62.5	Tons	45.4	Washington
Apples, All	1	1	3,100,000	Lbs.	39.3	Washington
Pears, All	2	2	266.0	Tons	34.7	California
Apricots	2	2	4.3	Tons	7.8	California
Grapes	3	3	156.0	Tons	3.0	California
Prunes and Plums	4	4	9.1	Tons	1.9	California
Peaches, Freestone	7	7	38,000	Lbs.	2.7	California
Vegetables						
Carrots, Processing	1	1	96.3	Tons	25.8	Washington
Asparagus	2	2	780.0	Cwt.	35.0	California
Green Peas, Processing	3	3	81.4	Tons	19.6	Wisconsin
Sweet Corn, Processing	4	4	295.5	Tons	11.5	Minnesota
Dry Onions, All Summer	6	6	2,277	Cwt.	6.3	California
Berries						
Red Raspberries	1	1	13,860	Lbs.	52.8	Washington
Cranberries	5	4	100	Bbls.	2.8	Massachusetts
Strawberries, All	6	3	140	Cwt.	1.4	California
Livestock						
Mink	6	5	217.3	Pelts	5.3	Wisconsin
Milk Production	10	10	3,762,000	Lbs.	2.6	Wisconsin
Milk Cows 1/	14	13	201	Head	1.9	Wisconsin
Eggs Produced	17	16	1,295,000	Eggs	1.9	California
Bees and Honey	17	3/	3,600	Lbs.	1.8	North Dakota
Broilers Produced	17	17	25,100	Head	.6	Arkansas
Farm Chickens 2/	19	19	5,700	Head	1.5	California
Sheep and Lambs 1/	29	30	59	Head	.6	Texas
All Cattle and Calves 1/	31	28	1,300	Head	1.3	Texas
Hogs and Pigs 2/	36	36	50	Head	.1	Iowa

1/ January 1, 1986 Inventory. 2/ December 1, 1985 Inventory. 3/ Not published in 1985.

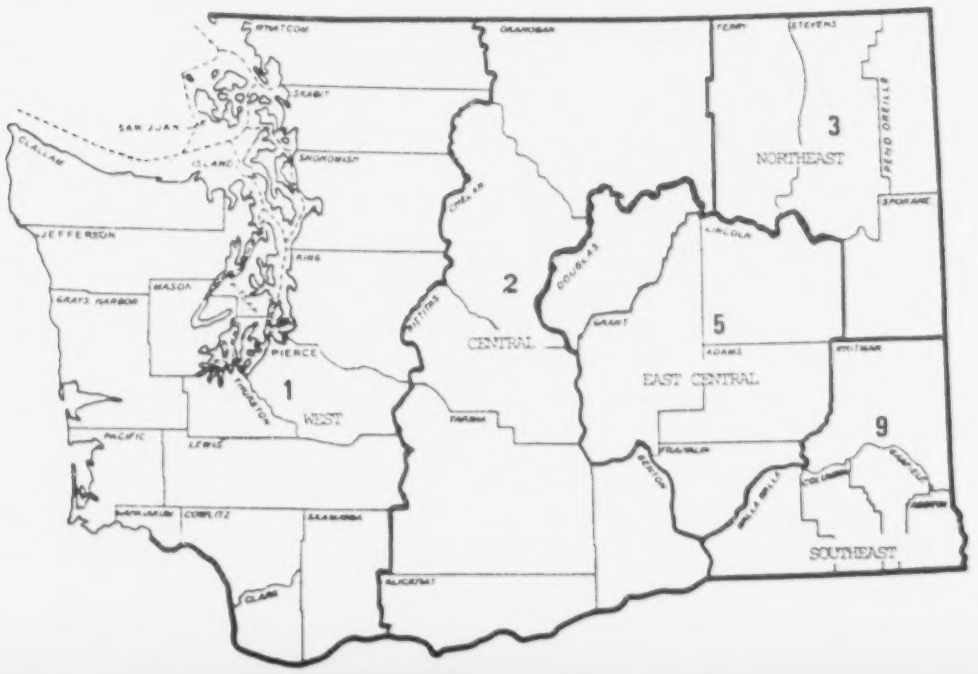
Number of Farms and Land in Farms 1/

Year	Washington			United States		
	No. of Farms	Land in Farms, Acres	Avg. Size of Farm	No. of Farms	Land in Farms, Acres	Avg. Size of Farm
	1,000	1,000	Acres	1,000	1,000	Acres
1973	38.5	16,400	426	2,823	1,087,923	385
1974	38.0	16,300	429	2,796	1,084,433	388
1975	34.0	16,100	474	2,521	1,059,420	420
1976	34.0	16,100	474	2,497	1,054,075	422
1977	34.0	16,100	474	2,456	1,047,785	427
1978	36.0	16,100	447	2,436	1,044,790	429
1979	37.0	16,300	441	2,432	1,042,015	428
1980	38.0	16,300	429	2,433	1,038,885	427
1981	39.5	16,400	415	2,434	1,034,190	425
1982	39.0	16,400	421	2,401	1,027,795	428
1983	38.0	16,300	429	2,370	1,024,195	432
1984	38.0	16,100	424	2,328	1,019,378	438
1985	38.0	16,100	424	2,275	1,014,383	446
1986	38.0	16,000	421	2,212	1,007,643	456
1987 2/	37.0	15,800	427	2,173	1,002,463	461

1/ Starting with 1975, the figures are based on the "new definition" which is a place with annual sales of agricultural products of $1,000 or more. Prior to this definition "a farm" included places of 10 or more acres that had annual sales of agricultural products of $50 or more and places of less than 10 acres that had annual sales of $250 or more.

2/ Preliminary.

Crop Reporting Districts (CRD)



Record Highs and Lows in Washington Agriculture

Field Crops, Vegetables & Berries	Year Estimates Started	Record High or Low	Acreage		Yield			Production	
			Harvested	Year	Unit	Per Acre	Year	Total	Year
			1,000					1,000	
All Wheat	1879	High	3,200	1976	Bu.	64.2	1983	172,570	1983
		Low	82	1879	Bu.	12.5	1918	1,935	1879
Barley	1882	High	1,180	1985	Bu.	75	1980	63,700	1984
		Low	24	1882	Bu.	13	1918	652	1882
Oats	1882	High	270	1909	Bu.	68	1984	13,230	1909
		Low	30	1/	Bu.	31	1889	1,505	1977
Corn, Grain	1919	High	160	1982	Bu.	170.0	1986	24,000	1982
		Low	6	1948	Bu.	26.5	1934	318	1934
Corn, Silage	1919	High	67	1973	Tons	24.0	1986	1,340	1973
		Low	7	2/	Tons	6.9	1919	70	1920
Dry Edible Beans 3/	1929	High	73	1958	Cwt.	22.2	1983	1,402	1958
		Low	1	4/	Cwt.	2.4	1929	9	1930
Dry Edible Peas	1929	High	390	1943	Cwt.	25.5	1980	2,812	1962
		Low	42	1929	Cwt.	7.1	1949	330	1929
Lentils	1952	High	163	1980	Lbs.	1,250	5/	163,000	1980
		Low	3	6/	Lbs.	230	1977	18,000	1959
Potatoes	1882	High	126	1985	Cwt.	525	1986	62,370	1985
		Low	8	1882	Cwt.	61	1883	918	1883
Hops	1915	High	31	1981	Lbs.	2,380	1926	59,470	1981
		Low	2	1923	Lbs.	1,187	1925	2,680	1919
Hay	1909	High	1,046	1934	Tons	3.65	1984	2,921	1984
		Low	783	1953	Tons	1.58	1933	1,332	1909
Mint Oil 7/	1929	High	43.2	1978	Lbs.	118	1986	3,528	1978
		Low	.4	1934	Lbs.	25	1932	13	1932
Asparagus	1923	High	30.00	1986	Cwt.	42	1945	812	1985
		Low	.45	1923	Cwt.	14	1924	7	1924
Carrots	1929	High	5.8	1986	Cwt.	467	8/	2,407	1986
		Low	.5	1929	Cwt.	150	1929	75	1929
Processing Green Peas	1928	High	90.10	1968	Cwt.	37.2	1971	2,799	1965
		Low	1.44	1928	Cwt.	16.1	1940	274	1928
Lettuce	1918	High	5.00	1934	Cwt.	228	1922	680	1961
		Low	.19	1918	Cwt.	100	1943	34	1918
Onions	1918	High	5.7	1986	Cwt.	459	1966	2,367	1984
		Low	.8	1918	Cwt.	171	1921	182	1918
Snap Beans, Processing	1918	High	4.9	1968	Cwt.	122.2	1961	352	1968
		Low	.1	9/	Cwt.	44.0	1928	6	1920
Sweet Corn, All	1934	High	54.60	1982	Cwt.	176	1982	9,621	1982
		Low	.25	1934	Cwt.	42	1934	500	10/
Cranberries	1959	High	1.20	14/	Cwt.	162.0	1968	162,000	1968
		Low	.95	11/	Cwt.	42.7	1960	42,700	1960
Strawberries	1918	High	9.00	1932	Cwt.	76.0	1976	496	1962
		Low	2.61	1918	Cwt.	16.2	1930	66	1918
Alfalfa Seed 13/	1939	High	38.0	1973	Lbs.	680	1967	20,520	1973
		Low	1.7	1943	Lbs.	69	1939	190	1944
Kentucky Bluegrass Seed All, 13/	1963	High	43.4	1973	Lbs.	667	1978	22,531	1971
		Low	16.7	1963	Lbs.	193	1977	3,910	1977
Red Clover Seed, All 13/	1935	High	13.0	1978	Lbs.	470	1981	3,900	1978
		Low	1.0	12/	Lbs.	125	1938	140	1935

1/ 1978, 1980, 1982, 1984 2/ 1946, 1947 3/ No estimates for 1931-36. 4/ 1930, 1937 5/ 1974, 1985
6/ 1952, 1953 7/ Only peppermint before 1952. 8/ 1977, 1980 9/ 1920, 1921 10/ 1934, 1936
11/ 1959, 1962 12/ 1935, 1936, 1973. 13/ Estimates discontinued for 1982-1984. 14/ 1985, 1986.

Record Highs and Lows in Washington Agriculture (continued)

Fruit	Year Estimates Started	Record High or Low	Production		
			Unit	Total	Year
Apples	1889	High	Million	3,100.0	1986
		Low	Pounds	13.6	1889
Cherries, Sweet	1934	High	Tons	89,000	1983
		Low		1,800	1966
Pears, Bartlett	1919	High	Tons	172,125	1944
		Low		28,925	1920
Pears, Other	1919	High	Tons	140,000	1986
		Low		10,250	1924
Grapes	1909	High	Tons	227,000	1983
		Low		900	1/
Prunes	1919	High	Tons	45,200	1935
		Low		9,100	1986
Apricots	1927	High	Tons	28,000	1947
		Low		800	1965
Cherries, Tart 2/	1934	High	Tons	7,100	1940
		Low		500	1961
Peaches	1899	High	Million	123.1	1947
		Low	Pounds	1.0	1965

Livestock	Year Estimates Started	Record High or Low	Inventory Jan. 1 or Production		
			Unit	Total	Year
All Cattle	1867	High	1,000	1,579	1980
		Low	Head	81	1867
Milk Cows	1867	High	1,000	380	3/
		Low	Head	5	1867
Cattle and Calves on Feed	1930	High	1,000	221	4/
		Low	Head	6	1935
Chickens on Farms	1925	High	1,000	8,250	1931
		Low	Head	4,800	1951
Broilers	1934	High	1,000	25,100	1986
		Low	Head	450	1934
Hogs and Pigs	1867	High	1,000	434	1944
		Low	Head	10	1867
Sheep	1867	High	1,000	815	1902
		Low	Head	53	1985
Milk	1924	High	Million	3,762	1986
		Low	Pounds	1,540	1924
Eggs	1925	High	Million	1,355	1985
		Low	Eggs	704	1925
Mink Pelts	1969	High	1,000	313	1969
		Low	Pelts	142	1972
Bees	1913	High	1,000	100	1959
		Low	Colonies	51	1913

1/ 1909, 1910. 2/ Official estimates 1934-1971. 3/ 1943, 1944, 1945.
4/ October 1, 1984.

Prices Received by Farmers, Washington

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Crop Year or Season Average 1/
							Dollars Per Bushel						
All Wheat													
1982							3.78	3.83	3.89	3.90	4.05	4.10	4.04
1983	4.14	4.24	4.23	4.23	4.05	3.81	3.81	3.78	3.77	3.73	3.71	3.59	3.69
1984	3.59	3.45	3.54	3.72	3.65	3.76	3.50	3.40	3.37	3.44	3.45	3.42	3.45
1985	3.43	3.51	3.60	3.67	3.57	3.39	3.30	3.24	3.30	3.38	3.48	3.50	3.41
1986	3.48	3.43	3.53	3.65	3.54	2.96	2.59	2.38	2.40	2.44	2.53	2.58	2.55
1987	2.62	2.74	2.83	2.81	2.78	2.64							
							Dollars Per Bushel						
Barley													
1982							2.39	2.19	2.00	1.89	2.02	2.55	2.23
1983	2.17	2.20	2.16	2.32	2.45	2.44	2.24	2.42	2.53	2.63	2.68	2.73	2.58
1984	2.69	2.59	2.70	2.83	2.71	2.72	2.35	2.28	2.21	2.26	2.35	2.35	2.25
1985	2.28	2.25	2.13	2.19	2.16	1.97	1.97	1.86	1.81	1.90	2.01	2.14	1.95
1986	2.11	1.95	1.91	1.90	1.91	1.58	1.45	1.49	1.66	1.66	1.68	1.61	1.65
1987	1.73	1.79	1.85	1.88	1.90	1.82							
							Dollars Per Cwt.						
Potatoes													
1982								5.00	3.60	3.30	3.10	3.55	3.75
1983	3.50	3.65	3.85	4.20	4.15	4.15	3.75	6.05	4.00	3.45	3.80	4.30	4.25
1984	5.10	4.60	4.65	4.70	4.70	3.95	3.30	9.50	5.15	3.90	4.20	4.90	5.15
1985	5.25	5.30	4.75	4.90	4.95	4.85	4.70	3.20	3.00	3.10	3.30	3.60	3.45
1986	3.70	3.70	3.65	3.80	3.65	4.25	4.25	5.20	3.85	3.75	4.15	4.35	4.20
1987	4.30	4.25	4.25	4.55	4.75	4.60	4.30						
							Dollars Per Ton						
All Hay													
1982						78.00	67.00	66.00	76.00	75.00	77.00	76.00	77.00
1983	92.00	90.00	90.00	94.00	84.00	86.00	75.00	75.00	77.00	83.00	76.00	81.00	78.50
1984	78.00	79.00	77.00	72.00	83.00	83.00	95.00	81.00	70.00	74.00	69.00	75.00	80.50
1985	83.00	72.00	90.00	99.00	95.00	90.00	83.00	77.00	73.00	80.00	78.00	87.00	84.50
1986	92.00	95.00	95.00	94.00	84.00	81.00	68.00	68.00	60.00	60.00	58.00	53.00	60.50
1987	54.00	50.00	45.00	45.00	45.00								
							Cents Per Pound						
Apples (Fresh Use)													
1982								12.7	13.7	11.6	12.0	11.2	10.7
1983	8.7	10.0	9.5	8.8	10.4	10.3	-	11.9	15.5	12.7	12.5	12.3	13.8
1984	13.5	14.3	14.4	14.1	14.3	14.4	-	-	19.5	16.6	14.9	14.3	13.3
1985	11.9	11.5	13.7	12.6	11.7	12.1	11.8	10.3	17.0	18.1	19.2	18.4	20.4
1986	18.7	18.9	18.9	19.3	24.8	25.5	30.2	36.4	17.0	17.6	15.9	15.9	18.7
1987	16.3	18.8	18.5	18.7	21.7	26.1	26.0						

1/ Crop year begins with month to right of heavy line. Data for 1987 are preliminary monthly prices.
- Not Available.

Prices Received by Farmers, Washington (continued)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual Average
	Dollars Per Cwt.												
Cows 1/													
1982	37.20	38.30	40.30	40.70	41.40	40.40	39.70	39.00	38.30	36.10	34.00	33.50	37.60
1983	36.00	39.00	41.70	41.70	42.40	40.70	39.50	38.60	37.20	35.40	34.30	35.50	38.40
1984	36.20	39.40	40.30	41.10	39.80	40.70	39.00	38.20	35.70	35.40	32.50	34.60	37.50
1985	37.50	39.80	39.90	39.50	38.00	36.90	33.90	35.40	33.90	31.30	31.20	31.10	35.40
1986	32.60	35.00	36.50	32.60	34.10	33.70	35.50	35.30	35.30	34.60	33.80	34.60	34.30
Steers and Heifers													
1982	61.30	63.60	65.30	66.00	71.90	70.10	65.20	63.70	62.70	57.70	60.60	57.20	63.50
1983	59.00	60.40	62.70	67.20	66.00	64.70	63.50	61.20	58.60	58.40	57.20	63.00	61.70
1984	66.90	65.80	66.50	66.10	64.80	62.50	62.30	61.40	59.40	58.10	61.10	63.00	62.90
1985	63.10	63.30	60.00	59.10	56.10	57.30	52.10	49.90	50.90	51.90	58.30	61.70	56.80
1986	58.20	54.20	54.30	52.00	53.90	52.60	55.50	56.90	57.50	56.80	59.60	59.30	55.90
Calves													
1982	49.00	55.60	56.00	55.50	56.70	57.20	50.20	50.40	52.50	55.40	52.80	50.70	53.80
1983	53.40	59.60	62.10	60.70	62.70	57.90	48.90	51.20	46.70	49.40	50.00	47.00	55.20
1984	52.30	57.80	61.00	60.80	62.20	65.60	55.80	46.50	47.10	51.80	51.10	55.50	55.10
1985	56.60	59.80	58.60	60.90	61.90	54.10	48.60	47.20	47.00	53.70	49.10	46.60	53.70
1986	49.20	53.60	53.60	50.00	50.60	49.50	49.90	52.00	55.10	54.90	54.90	57.90	52.90
Milk Sold to Plants, All													
1982	13.50	13.50	13.40	13.30	13.20	13.20	13.10	13.20	13.30	13.40	13.50	13.50	13.30
1983	13.50	13.40	13.40	13.30	13.20	13.20	13.20	13.20	13.30	13.30	13.40	13.20	13.30
1984	13.10	12.90	12.80	12.80	12.80	12.80	12.80	13.00	13.20	13.40	13.70	13.40	13.10
1985	13.50	13.20	12.90	12.60	12.40	12.00	11.90	11.90	11.90	12.00	12.10	12.10	12.40
1986	12.00	12.00	11.80	11.80	11.80	11.70	11.80	12.00	12.30	12.50	12.70	12.80	12.10
	Dollars Per Head												
Milk Cows 2/													
1982	1,200	-	-	1,150	-	-	1,140	-	-	1,140	-	-	1,160
1983	1,120	-	-	1,100	-	-	1,070	-	-	1,000	-	-	1,070
1984	980	-	-	1,010	-	-	1,000	-	-	1,000	-	-	1,000
1985	980	-	-	1,010	-	-	960	-	-	900	-	-	965
1986	870	-	-	870	-	-	920	-	-	950	-	-	905

1/ Beef cows sold for slaughter and herd replacement, and cull dairy cows sold for slaughter.
2/ Dairy cows sold for dairy herd replacement. Prices estimated quarterly beginning January 1982.

Prices Paid by Farmers, Washington

Commodity/ Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
	(Dollars Per Ton)											
Chick Starter												
1982	210	215	215	215	210	240	215	215	205	195	205	205
1983	198	205	205	205	225	220	220	220	210	230	235	245
1984	235	230	250	245	255	235	235	230	225	215	215	205
1985	205	210	210	210	215	215	196	186	184	178	200	200
1986 1/	183	205	-	-	-	-	-	-	-	-	-	-
1986 2/	184	183	-	184	-	-	185	-	-	197	-	-
Broiler Grower												
1982	210	215	215	198	215	235	220	225	215	195	200	205
1983	193	199	197	194	210	200	200	200	205	225	215	235
1984	215	205	225	245	260	235	235	230	230	210	205	215
1985	200	200	200	200	215	210	197	186	184	176	176	180
1986 1/	179	191	-	-	-	-	-	-	-	-	-	-
1986 2/	190	186	-	184	-	-	194	-	-	184	-	-
Laying Feed												
1982	181	194	187	185	195	210	184	188	194	197	196	184
1983	176	177	178	191	194	194	200	195	195	205	200	200
1984	200	200	205	225	225	205	205	199	200	200	199	191
1985	205	200	205	200	205	205	199	193	189	195	186	188
1986 1/	186	198	-	-	-	-	-	-	-	-	-	-
1986 2/	171	167	-	163	-	-	170	-	-	159	-	-
Dairy Feed 14% Protein												
1982	167	171	178	170	180	183	173	170	175	166	165	167
1983	169	162	165	165	176	176	171	182	183	185	186	189
1984	187	186	189	189	183	176	180	181	178	165	169	157
1985	170	168	169	166	168	169	170	159	161	167	155	160
1986 1/	160	159	-	-	-	-	-	-	-	-	-	-
1986 2/	152	152	-	149	-	-	144	-	-	136	-	-
Dairy Feed 16% Protein												
1982	173	180	200	198	191	190	180	177	181	172	171	170
1983	178	167	172	173	179	177	180	188	186	190	189	193
1984	196	189	195	195	190	187	187	191	190	176	172	170
1985	181	171	174	173	189	192	190	171	170	172	165	164
1986 1/	164	169	-	-	-	-	-	-	-	-	-	-
1986 2/	161	161	-	157	-	-	155	-	-	144	-	-

1/ State estimates were discontinued in March, 1986. 2/ Pacific Regional estimates (California, Oregon, and Washington) are made on a quarterly basis.

Prices Paid by Farmers, Washington (continued)

Commodity/ Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
	Dollars Per Ton											
Soybean Meal												
1982	420	380	410	450	450	440	410	410	390	380	400	390
1983	410	380	370	400	400	380	370	390	410	410	410	410
1984	410	410	390	410	410	400	400	390	380	360	350	330
1985	340	360	350	370	360	370	360	330	340	340	340	360
1986 1/	350	320	-	-	-	-	-	-	-	-	-	-
1986 2/	314	336	-	328	-	-	302	-	-	340	-	-
Cotton Seed Meal												
1982	410	440	480	440	450	490	480	520	470	490	430	440
1983	460	460	410	370	340	350	350	360	370	370	370	370
1984	350	380	400	420	400	430	450	440	440	470	420	420
1985	440	480	480	480	490	490	480	450	450	460	450	420
1986 1/	420	440	-	-	-	-	-	-	-	-	-	-
1986 2/	248	266	-	262	-	-	266	-	-	274	-	-
Gasoline, Unleaded Service Station	Dollars Per Gallon											
1982	1.43	1.40	1.35	1.30	1.30	1.32	1.35	1.37	1.35	1.35	1.32	1.29
1983	1.26	1.18	1.11	1.16	1.19	1.24	1.31	1.32	1.34	1.31	1.28	1.27
1984	1.24	1.22	1.21	1.23	1.24	1.26	1.25	1.24	1.24	1.25	1.26	1.26
1985	1.26	1.23	1.21	1.24	1.23	1.27	1.26	1.25	1.25	1.26	1.27	1.26
1986 1/	1.25	1.21	-	-	-	-	-	-	-	-	-	-
1986 2/	1.22	1.15	-	.996	-	-	.945	-	-	.890	-	-
Gasoline, Regular Bulk Delivery												
1982	1.33	1.32	1.27	1.21	1.24	1.26	1.28	1.29	1.29	1.26	1.24	1.20
1983	1.18	1.11	1.02	1.07	1.13	1.19	1.26	1.27	1.26	1.25	1.23	1.22
1984	1.19	1.16	1.15	1.21	1.22	1.21	1.21	1.19	1.19	1.21	1.21	1.21
1985	1.20	1.16	1.16	1.18	1.19	1.21	1.20	1.19	1.20	1.20	1.20	1.19
1986 1/	1.20	1.14	-	-	-	-	-	-	-	-	-	-
1986 2/	1.13	1.06	-	.888	-	-	.866	-	-	.800	-	-
Diesel Fuel												
1982	1.14	1.15	1.13	1.13	1.11	1.11	1.11	1.09	1.10	1.10	1.11	1.13
1983	1.12	1.07	1.02	1.01	.99	.97	.97	.99	.97	.98	.97	.96
1984	.97	.96	.95	.98	.96	.95	.94	.92	.91	.93	.93	.92
1985	.92	.91	.90	.91	.93	.92	.91	.90	.89	.90	.94	.97
1986 1/	.97	.89	-	-	-	-	-	-	-	-	-	-
1986 2/	.970	.860	-	.634	-	-	.544	-	-	.590	-	-

1/ State estimates were discontinued in March, 1986. 2/ Pacific Regional estimates (California, Oregon, and Washington) are made on a quarterly basis.

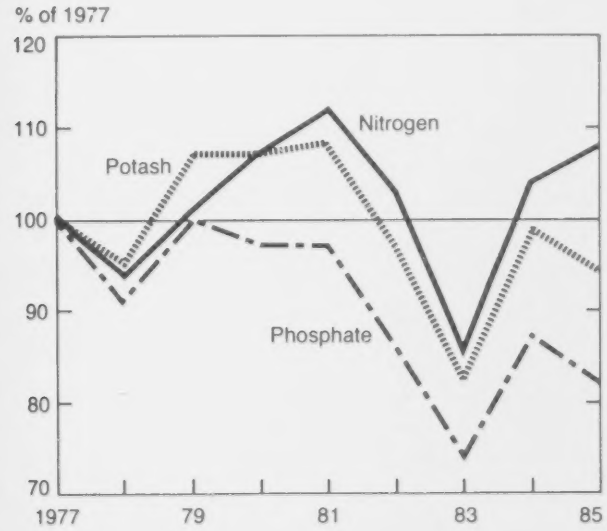
Prices Paid by Farmers, Northwest Region 1/

Item	Month	1982	1983	1984	1985	1986 2/
		Dollars Per Ton				
Northwest Region 2/						
Anhydrous Ammonia	March	364	369	372	363	344
	May	366	366	359	362	-
	October	367	365	367	357	306
	December	367	358	354	359	-
Nitrogen Solutions, 32%	March	218	203	198	192	170
	May	217	196	197	190	-
	October	212	192	197	195	165
	December	213	198	190	194	-
Superphosphate, 44-46%	March	248	237	240	232	200
	May	241	230	238	232	-
	October	245	235	230	229	200
	December	242	235	230	227	-

1/ Northwest Region includes Idaho, Oregon, and Washington.
2/ Data for 1986 was published in April and October.

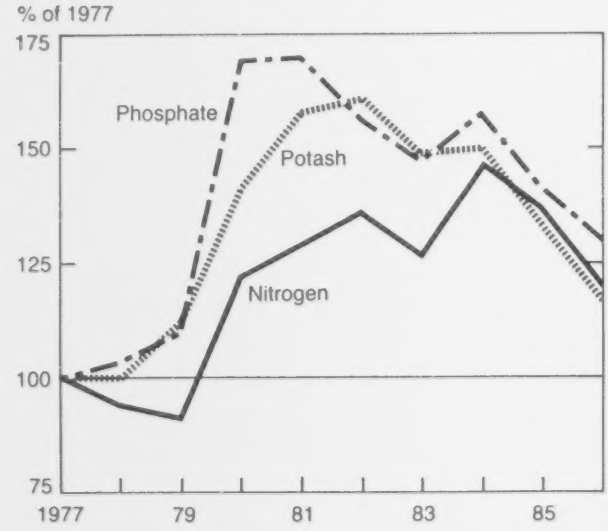
Farm Fertilizer Use

Fertilizer use rose in 1984 as land idled in 1983 was returned to production. Nitrogen use rose as corn acreage and application rates increased in 1985.



Prices of Fertilizer

Prices of selected fertilizers generally increased until 1981 as use expanded. Plentiful supplies and declining consumption lowered prices in 1985 and 1986.



Index of Prices Received and Paid by Farmers, United States

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Prices Received						1977=100							
	All Farm Products												
1983	128	132	134	136	137	133	131	136	136	136	137	140	135
1984	146	144	145	146	145	144	145	143	140	138	135	135	142
1985	135	134	134	131	130	128	125	121	121	123	127	127	128
1986	124	122	122	121	123	121	125	125	122	121	124	120	123
	All Crops												
1983	113	117	121	126	129	126	124	134	135	137	138	137	128
1984	140	138	139	140	145	144	145	143	139	137	128	125	139
1985	125	123	126	126	125	122	120	114	114	111	114	117	120
1986	113	110	111	114	115	109	106	102	97	97	102	99	106
	All Livestock and Products												
1983	142	146	146	145	144	141	138	139	137	135	136	144	141
1984	151	151	151	150	145	144	145	143	141	138	143	145	146
1985	144	145	141	136	134	134	130	128	128	134	138	137	136
1986	135	133	132	127	131	134	143	148	146	145	145	141	138
Prices Paid 1/													
	Commodities, Services, Interest, Taxes, and Wage Rates 4/												
1983	156	159	159	160	161	161	161	161	162	162	162	163	161
1984	164	164	165	165	165	165	165	165	164	164	164	164	165
1985	164	164	164	164	164	163	163	162	162	162	162	162	163
1986	159	161		159			159			158			159
	Items Used for Production 4/												
1983	150	151	151	153	153	153	152	153	153	152	154	154	152
1984	156	156	157	158	157	157	156	155	154	153	153	153	155
1985	154	154	153	153	152	151	150	149	148	148	149	149	151
1986	149	148		145			144			142			145
	Interest 2/*					Taxes 3/*				Farm Services & Cash Rent*			
1983		258				129				145			
1984		257				132				152			
1985		238				133				150			
1986		213				134				150			
	Wage Rates 4/												
1983	148	148	148	148	148	148	148	148	148	148	148	148	148
1984	151	151	151	151	151	151	154	154	154	150	150	150	151
1985	154	154	154	158	158	158	154	154	154	150	150	150	154
1986	150	150		164			166			159			160
	Production Items, Interest, Taxes, and Wage Rates												
1983	153	158	158	159	160	160	159	159	160	159	160	161	159
1984	162	162	163	164	163	163	162	161	161	160	160	160	162
1985	159	159	159	159	158	157	156	156	155	154	155	155	157
1986	153	153		151			151			149			151
Ratio of Prices Received to Prices Paid 4/													
1983	82	83	84	85	85	83	81	84	84	84	85	86	84
1984	89	88	88	88	88	87	88	87	85	84	82	82	86
1985	82	82	82	80	79	79	77	75	75	76	78	78	79
1986	78	76	76	76	77	76	79	79	77	77	78	76	77

* Information collected yearly but is used as a component of monthly index.

1/ Estimates made on a quarterly basis starting with March 1986.

2/ Interest on indebtedness secured by farm real estate.

3/ Taxes on farm real estate.

4/ Ratio of index of prices received by farmers to index of prices paid, interest, taxes, and wage rates.

Gross and Net Farm Income, Washington 1/

Item	1982	1983	1984	1985
	Million Dollars			
Cash Receipts From Marketings	2,865.2	2,844.7	3,131.9	2,797.4
Government Payments	77.0	153.8	171.0	155.1
Non-Money Income	318.2	314.3	326.9	323.0
Other Farm Income	125.4	126.9	141.5	184.0
Value of Inventory Adjustment	-26.7	76.9	-33.7	-102.0
Total Gross Farm Income	3,359.1	3,516.6	3,737.6	3,357.4
Farm Production Expenses	2,682.1	27,004.4	2,775.7	2,660.0
Total Net Farm Income	677.0	816.2	961.9	696.8

Farm Production Expenses, Washington 1/

Item	1982	1983	1984	1985
	Million Dollars			
Intermediate Product Expense				
Farm Origin:				
Feed	348.8	415.3	388.2	375.1
Livestock	122.0	78.1	90.2	82.5
Seed	55.6	52.3	60.3	59.0
Total	526.4	545.7	538.8	516.6
Manufactured Input:				
Fertilizer and Lime	174.9	173.0	156.6	152.3
Pesticides	102.3	99.4	113.9	118.6
Fuel and Oil	128.3	121.7	116.3	107.2
Electricity	44.1	46.4	46.8	44.8
Total	449.6	440.4	433.6	422.9
Other	440.5	431.2	469.4	446.6
Total Intermediate	1,416.5	1,417.2	1,441.8	1,386.1
Interest	370.7	370.7	376.7	363.2
Contract and Hired Labor	358.5	341.0	344.9	362.2
Net Rent to Nonoperator Landlords	92.3	124.1	142.4	110.5
Capital Consumption	367.7	379.3	396.8	365.1
Business Taxes	76.3	68.1	73.1	73.6
Total Production Expense	2,682.1	2,700.4	2,775.7	2,660.6

1/ Source: Economic Indicators of the Farm Sector, State Financial Summary, 1985, ERS, USDA, January, 1987. Data may not add due to rounding.

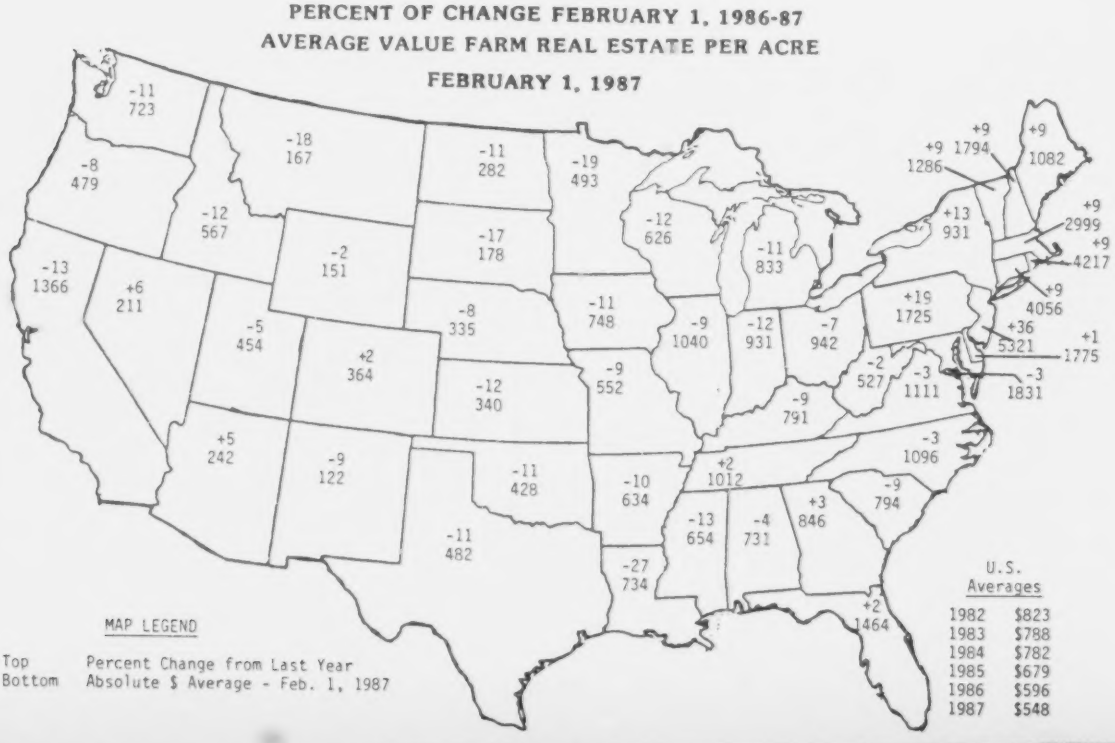
Balance Sheet of Washington Farms, December 31 1/

Item 2/	1981	1982	1983	1984	1985
	Million Dollars				
Total Farm Assets	19,583.1	19,832.7	20,279.8	19,697.7	17,992.2
Total Farm Debts	3,662.3	3,979.6	4,046.5	4,103.3	4,070.6
Debt/Asset Ratio, Total	18.7	20.1	19.9	20.8	22.6

1/ Source: Economic Indicators of Farm Sector, State Financial Summary, 1985, ERS, USDA, January, 1987.
2/ Includes operator households.

Average Value of Farm Land and Buildings

Date/ Year	California	Idaho	Oregon	Washington	U.S. Average
	Dollars Per Acre				
Feb 1, 1980	1,424	689	587	736	737
1981	1,732	774	668	877	819
Apr 1, 1982	1,900	839	705	922	823
1983	1,918	814	705	933	788
1984	1,918	814	698	961	782
1985	1,726	749	579	923	679
Feb 1, 1986	1,571	644	521	812	596
1987	1,366	567	479	723	548



FARM LABOR

The number of farm workers in the Pacific Region peaked at 150,000 in 1987. This was a lower level than most of the previous years. Only 1985 had a lower level, and that was possibly due to a small fruit crop caused by late spring frosts. Wage rates for field and livestock workers were high in 1987 compared to other years. Average hours worked per worker during the July 1987 survey week was also higher than previous years.

Wage Rates and Hours Worked, Pacific Region 1/

Year and Month	Hours Worked	Wage Rates			
		Field	Livestock	Field and Livestock	Composite Hourly Rate 2/
	Hours	Dollars per Hour			
1985					
April	41.9	4.78	4.69	4.75	4.75
July	36.2	4.43	5.19	4.48	4.57
October	42.3	4.88	5.49	4.94	4.83
1986					
April	38.6	4.70	5.27	4.80	4.77
July	34.0	4.15	-	4.19	4.51
October	41.8	5.09	5.64	5.16	4.85
1987					
April	39.9	4.89	5.14	4.93	4.93
July	42.6	4.90	5.37	4.94	4.96

1/ Pacific Region includes only Washington and Oregon.
2/ Includes all workers and all methods of pay except those workers paid by piece rate.

Number of Workers 1/

Year and Month	Washington		Pacific Region	
	Hired	All	Hired	All
1982				
July	42	74	91	171
1983				
July	56	92	96	172
1984				
July	46	78	93	159
October	40	60	61	170
1985				
April 2/	-	-	52	105
July	-	-	86	147
October	-	-	54	102
1986				
April	-	-	39	87
July	-	-	103	185
October	-	-	43	110
1987				
April	-	-	45	120
July	-	-	87	150

1/ The quarterly farm labor report was dropped in April 1981 and reinstated in July 1984 except for the January quarter.
2/ The USDA stopped publishing data by state in 1984. After that, data was published by region with Washington and Oregon forming the Pacific Region.

FLORICULTURE

The total wholesale value of floriculture crops in Washington dropped to $31.8 million in 1986, down 5 percent from 1985. Washington growers used more area to produce these crops in 1986 compared with 1985. They used 4.1 million square feet of covered area and 54.2 million square feet (2,000 acres) of open ground to produce floriculture crops in 1986.

The open ground was used to produce other cut flowers consisting mainly of tulips, daffodils, and iris. Total wholesale value of other cut flowers rose 16 percent from 1985 to $6.5 million.

Other flowering and foliage type bedding plants were grown on 1.3 million square feet of covered area with a total wholesale value of $5.4 million.

Because of changes to the 1986 survey, comparisons of individual crops from 1985 to 1986 may not be possible. Please see table footnotes for specific changes.

Growers, Growing Area, and Value of Sales

Year	Total Number of Growers	Glass, Fiberglass, and Other Rigid Greenhouses	Film Plastic (Single/Double) Greenhouses	Total Greenhouse Cover
	1,000 Square Feet			
1985 1/	-	-	-	3,971
1986	100	2,112	1,977	4,089

Year	Shade and Temporary Cover	Total Covered	Open Ground	Total Wholesale Value
	1,000 Square Feet		Acres	$1,000
1985	45	4,016	1,200	33,340
1986	37	4,126	2,000	31,752

1/ All greenhouse space only for 1985.

Production, Sales, and Price

Plant and Year	Producers	Area In Production	Quantity Sold	Value of Sales at Wholesale	Percent of Sales at Wholesale	Wholesale Price 1/
	Number	1,000 Feet	1,000	$1,000	Percent	Dollars
			Blooms			
Cut Hybrid Tea Rose						
1985	4	227	1,265	894	99	0.71
1986	4	133	1,303	678	99	0.52
Chrysanthemums, Standard						
1985	7	17	48	42	83	0.88
1986	6	17	39	31	83	0.79
			Bunches			
Chrysanthemums, Pompon						
1985	6	69	82	143	93	1.74
1986	8	68	72	140	91	1.95
Other Cut Flowers						
1985	N/A	41,029	-	5,590	97	-
1986	16	54,222	-	6,500	92	-
			Baskets			
Foliage Hanging Baskets 2/						
1985	15	-	149	542	93	3.64
1986	13	-	180	671	100	3.73
Flowering Hanging Baskets 3/						
1985	50	-	249	1,708	88	6.86
1986	44	-	226	2,072	93	9.17
			Flats			
Geraniums, Flats 3/						
1985	17	150	157	416	97	2.65
1986	19	129	105	500	92	4.76
Other Flowering and Foliage Type Bedding Plants 3/						
1985	56	1,590	853	6,218	86	7.29
1986	61	1,340	794	5,447	87	6.86
Vegetable Type Bedding Plants 3/ 4/						
1985	58	239	184	1,275	87	6.93
1986	51	282	170	1,275	88	7.50

1/ Equivalent wholesale value of all sales.
2/ 1985 and 1986 data are not comparable due to changing the minimum time for holding plants purchased from others for resale from 12 weeks to 4 weeks.
3/ 1985 and 1986 data are not comparable due to changing the minimum time for holding plants purchased from others for resale from 6 weeks to 4 weeks.
4/ Does not include vegetable transplants grown for use in commercial vegetable production.
- Data not collected.
N/A Snapdragons were reported separately in 1985, and were combined to form one category in 1986.

Production, Sales, and Price (continued)

Plant and Year	Producers	Area In Production	Quantity Sold	Value of Sales at Wholesale	Percent of Sales at Wholesale	Wholesale Price 1/
	Number	1,000 Feet	1,000	$1,000	Percent	Dollars
			Pots			
Easter Lilies 3/						
1985	11	95	142	559	95	3.94
1986	13	89	154	531	95	3.45
Poinsettia 3/						
1985	36	1,130	957	3,273	89	3.42
1986	45	1,210	875	3,325	80	3.80
Potted Chrysanthemums 3/						
1985	10	38	75	256	98	3.41
1986	9	48	98	394	93	4.02
Other Potted Flowering and Foliage Type Bedding Plants 3/						
1985	39	812	3,792	4,020	90	1.06
1986	32	773	3,453	2,797	91	0.81
Potted Vegetable Type Bedding Plants 3/ 4/						
1985	28	214	724	688	92	0.95
1986	25	194	611	360	93	0.59
Chrysanthemums, Potted Handy/Garden 3/						
1985	32	385	614	921	89	1.50
1986	28	475	677	724	83	1.07
Potted Geraniums, Cutting 3/						
1985	67	535	1,877	2,196	76	1.17
1986	61	606	1,872	2,396	63	1.28
Potted Geraniums, Seed 3/						
1985	21	131	462	393	96	0.85
1986	32	133	514	524	54	1.02

1/ Equivalent wholesale value of all sales.
2/ 1985 and 1986 data are not comparable due to changing the minimum time for holding plants purchased from others for resale from 12 weeks to 4 weeks.
3/ 1985 and 1986 data are not comparable due to changing the minimum time for holding plants purchased from others for resale from 6 weeks to 4 weeks.
4/ Does not include vegetable transplants grown for use in commercial vegetable production.
- Data not collected.
N/A Snapdragons were reported separately in 1985, and were combined to form one category in 1986.

Usual Planting and Harvesting Dates, Washington

Crop	Usual Planting Dates	Usual Harvesting Dates		
		Begin	Most Active	End
Fall Barley	Sep 1-Nov 10	Jul 5	Jul 15-Aug 10	Aug 20
Spring Barley	Mar 1-May 15	Jul 15	Jul 25-Aug 25	Sep 15
Dry Beans	May 1-Jun 10	Aug 20	Sep 5-Sep 30	Nov 1
Grain Corn	Apr 5-May 20	Oct 15	Oct 25-Nov 20	Dec 15
Silage Corn	Apr 5-May 20	Sep 1	Sep 5-Oct 5	Oct 15
Alfalfa Hay		May 25		Oct 15
Other Hay		May 25		Sep 15
Oats	Mar 10-Apr 10	Jul 15	Aug 1-Aug 25	Sep 10
Winter Wheat	Aug 15-Nov 20	Jul 10	Jul 25-Aug 25	Sep 20
Spring Wheat	Mar 1-May 15	Jul 15	Jul 25-Aug 20	Sep 30
Asparagus (F)		Apr 10	May 5-Jun 5	Jun 21
Snap Beans (P)	May 10-Jun 21	Jul 20	Aug 5-Sep 1	Oct 1
Carrots (F)	Apr 15-Jul 30	Jul 30	Sep 1-Nov 1	Dec 31
Carrots (P)	Apr 15-Jul 30	Jul 30	Sep 1-Nov 1	Dec 31
Sweet Corn (F)	Apr 15-Jun 5	Jul 25	Aug 1-Sep 20	Sep 30
Sweet Corn (P)	Apr 10-Jun 25	Aug 20	Sep 1-Oct 5	Oct 20
Lettuce (F)	Mar 24-Aug 15	Jun 25	Sep 10-Nov 1	Nov 15
Onions	Transplant:			
Non-storage--Fall	Oct 15-Dec 10	Jul 5	Jul 20-Aug 5	Aug 15
--Spring	Mar 20-Apr 5	Jun 20	Jul 5-Aug 1	Sep 1
Storage	Mar 25-Apr 15	Sep 10	Sep 15-Oct 5	Oct 20
Green Peas (P)	Apr 1-Jun 20	Jun 15	Jun 25-Aug 15	Aug 31

Crop	Usual Dates of Full Bloom	Usual Harvesting Dates		
		Begin	Most Active	End
Cultivated Blackberries	Jun 15-Jul 10	Jul 10	Aug 15-Sep 20	Oct 10
Blueberries	May 10-May 15	Jul 5	Aug 5-Sep 15	Oct 5
Cranberries	Jun 10-Jun 15	Oct 1	Oct 5-Oct 10	Nov 1
Currants	Apr 1-Apr 5	Jul 5	Jul 10-Jul 20	Jul 25
Raspberries	May 10-May 15	Jun 25	Jul 15-Jul 20	Aug 15
Strawberries	Apr 10-May 15	Jun 10	Jun 25-Jul 5	Jul 20
Apples	Apr 5-May 10	Jul 15-Oct 5	Sep 5-Oct 25	Nov 1
Apricots	Mar 20-Apr 5	Jun 25-Jul 20	Jul 5-Jul 25	Aug 1
Sweet Cherries	Apr 10-Apr 25	Jun 10-Jul 1	Jun 15-Jul 15	Jul 20
Grapes	May 25-Jul 10	Sep 15-Oct 10	Sep 15-Oct 20	Oct 20
Peaches	Apr 10-Apr 20	Jul 10-Aug 1	Aug 10-Sep 10	Sep 20
Bartlett Pears	Apr 5-May 5	Aug 10-Aug 30	Aug 15-Sep 10	Sep 20
Other Pears	Apr 5-May 5	Sep 5-Sep 20	Sep 20-Oct 20	Nov 1
Prunes	Apr 15-Apr 20	Aug 10-Aug 20	Aug 20-Sep 5	Oct 1

(F)=Fresh market
(P)=Processing market

FIELD CROPS

Winter wheat seeding was underway by the final week of August 1985. Rain showers improved dry conditions that had prevailed since early spring in many locations. By the end of September, well over half of the State's crop had been seeded. By the first week of October, nighttime minimums were at or below the freezing level slowing the emergence of the crop.

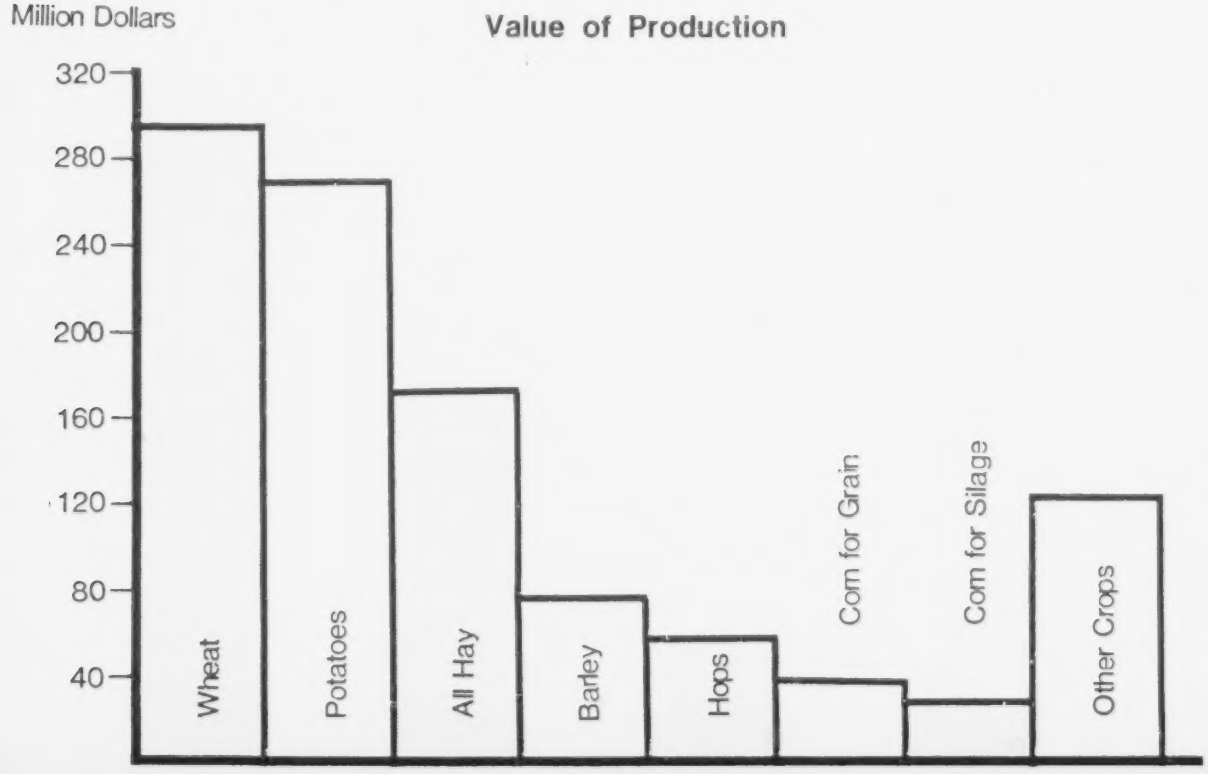
Snow and very cold temperatures halted all fieldwork during the third week of November. Minimums were well below zero in the northeast. By the last week of November, snow covered most areas of the State and temperatures east of the Cascades fell as low as -21 degrees. Snow cover was adequate in most areas to protect cereals from freeze injury.

Spring fieldwork was underway in eastern counties by the first week of March and spring cereals were being seeded. Frequent rain restricted fieldwork during the first two weeks of March. Weed spraying and fertilizer topdressing applications had begun in many areas. By the third week of March, some early potatoes were being planted.

Corn seeding began around the first of May and continued throughout the month. Wheat and barley conditions continued mostly good to fair. Following weeks of abnormally cool weather, crop progress took off as average temperatures warmed three to thirteen degrees above normal by the end of the month. Alfalfa hay harvest was beginning during the final week of the month.

Winter wheat harvest was just beginning in early areas during the first week of July. The second cutting of alfalfa was underway and early potato harvest started by mid-July.

By the end of the first week of August, winter wheat harvest was 8 points behind normal at 50 percent complete. The third cutting of alfalfa was nearly complete by the middle of the month and some fourth cutting was underway. By the end of the month, winter wheat harvest advanced to 99 percent complete and barley and spring wheat harvests were also nearing completion. Field corn harvest began during the latter half of October and was virtually complete by the end of November.



Field Crop Acreage, Production, Price, and Value

Crop and Year	Acreage		Yield Per Acre	Unit	Production	Average Price Per Unit	Value of Production
	Planted	Harvested					
	1,000 Acres				1,000 Units	Dollars	1,000 Dollars
Wheat, Winter							
1982	2,700	2,560	49.0	Bu.	125,440	-	-
1983	2,850	2,500	65.0	Bu.	162,500	-	-
1984	2,600	2,400	62.0	Bu.	148,800	-	-
1985	2,550	2,400	48.0	Bu.	115,200	-	-
1986	2,250	2,100	49.0	Bu.	102,900	-	-
Wheat, Spring							
1982	290	280	48.0	Bu.	13,440	-	-
1983	200	190	53.0	Bu.	10,070	-	-
1984	220	210	55.0	Bu.	11,550	-	-
1985	300	290	45.0	Bu.	13,050	-	-
1986	320	310	45.0	Bu.	13,950	-	-
Wheat, All							
1982	2,990	2,840	48.9	Bu.	138,880	4.04	561,076
1983	3,050	2,690	64.2	Bu.	172,570	3.69	636,783
1984	2,820	2,610	61.4	Bu.	160,350	3.45	553,208
1985	2,850	2,690	47.7	Bu.	128,250	3.41	437,333
1986	2,570	2,410	48.5	Bu.	116,850	2.55	297,968
Barley							
1982	850	810	61.0	Bu.	49,410	2.23	110,184
1983	880	850	64.0	Bu.	54,400	2.58	140,352
1984	1,000	980	65.0	Bu.	63,700	2.25	143,325
1985	1,200	1,180	48.0	Bu.	56,640	1.95	110,448
1986	920	900	50.0	Bu.	45,000	1.65	74,250
Oats							
1982	68	30	62.0	Bu.	1,860	1.87	3,478
1983	75	33	63.0	Bu.	2,079	1.61	3,347
1984	75	30	68.0	Bu.	2,040	1.80	3,672
1985	70	33	65.0	Bu.	2,145	1.50	3,218
1986	70	33	65.0	Bu.	2,145	1.15	2,467
Corn For Grain 1/							
1982	220	160	150.0	Bu.	24,000	3.00	72,000
1983	160	110	160.0	Bu.	17,600	3.62	63,712
1984	200	150	155.0	Bu.	23,250	3.00	69,750
1985	190	135	160.0	Bu.	21,600	2.65	57,240
1986	170	120	170.0	Bu.	20,400	1.75	35,700
Corn For Silage							
1982	-	60	22.0	Tons	1,320	23.00	30,360
1983	-	50	23.0	Tons	1,150	25.00	28,750
1984	-	50	23.0	Tons	1,150	23.00	26,450
1985	-	55	22.0	Tons	1,210	22.00	26,620
1986	-	50	24.0	Tons	1,200	22.50	27,000
Dry Beans							
1982	38	37	20.7	Cwt.	766	13.50	10,341
1983	16	16	22.2	Cwt.	355	18.30	6,497
1984	35	34	20.8	Cwt.	707	17.80	12,585
1985	34	33	21.5	Cwt.	710	18.20	12,922
1986	32	31	21.6	Cwt.	670	18.10	12,127
Dry Edible Peas							
1982 2/	-	115.0	15.3	Cwt.	1,756	10.60	18,614
1983 2/	-	117.0	18.2	Cwt.	2,129	9.00	19,161
1984 2/	-	123.0	14.8	Cwt.	1,820	8.65	15,743
1985	-	85.0	16.6	Cwt.	1,411	9.20	12,981
1986	110.0	109.0	18.4	Cwt.	2,006	9.00	18,054
Lentils							
1982 2/	-	150.0	8.5	Cwt.	1,275	16.60	21,165
1983 2/	-	79.0	9.3	Cwt.	735	13.30	9,775
1984 2/	-	55.0	8.3	Cwt.	457	26.00	11,882
1985	-	84.0	7.5	Cwt.	630	29.00	18,270
1986	113.0	112.0	12.2	Cwt.	1,366	19.50	26,637

Field Crop Acreage, Production, Price, and Value (Continued)

Crop and Year	Acreage		Yield Per Acre	Unit	Production	Average Price Per Unit	Value of Production
	Planted	Harvested					
	1,000 Acres				1,000 Units	Dollars	1,000 Dollars
Potatoes							
1982	110	110	480	Cwt.	52,800	3.75	198,000
1983	104	104	520	Cwt.	54,080	4.25	229,840
1984	116	115	495	Cwt.	56,925	5.15	293,164
1985	127	126	505	Cwt.	63,630	3.45	219,524
1986	119	118	525	Cwt.	61,950	4.30	266,385
Hops							
1982		28.1	2,070	Lbs.	58,167	1.60	93,067
1983		26.5	1,930	Lbs.	51,145	1.80	92,061
1984		22.7	1,920	Lbs.	43,584	1.99	86,732
1985		19.5	1,870	Lbs.	36,465	1.81	66,002
1986		17.4	2,040	Lbs.	35,496	1.62	57,504
Alfalfa Hay							
1982		460	4.0	Tons	1,840		
1983		440	4.0	Tons	1,760		
1984		475	4.3	Tons	2,043		
1985		450	3.9	Tons	1,755		
1986		470	4.2	Tons	1,974		
Other Hay							
1982		340	2.3	Tons	782		
1983		350	2.5	Tons	875		
1984		325	2.7	Tons	878		
1985		350	2.4	Tons	840		
1986		360	2.5	Tons	900		
All Hay							
1982		800	3.28	Tons	2,622	77.00	201,894
1983		790	3.34	Tons	2,635	78.50	206,848
1984		800	3.65	Tons	2,921	80.50	235,141
1985		800	3.24	Tons	2,595	84.50	219,278
1986		830	3.46	Tons	2,874	60.50	173,877
Peppermint							
1982		8.9	80	Lbs.	712	8.20	5,838
1983		9.5	80	Lbs.	760	9.40	7,144
1984		12.4	84	Lbs.	1,042	10.10	10,524
1985		13.2	87	Lbs.	1,148	8.30	9,528
1986		10.9	89	Lbs.	970	7.90	7,663
Spearmint							
1982		6.9	98	Lbs.	676	11.20	7,571
1983		9.4	97	Lbs.	912	11.70	10,670
1984		11.3	111	Lbs.	1,254	11.70	14,672
1985		14.0	115	Lbs.	1,605	10.80	17,334
1986		13.0	143	Lbs.	1,859	9.60	17,846
Rapeseed							
1986	15	14	1,700	Lbs.	23,800	.075	1,785
Other Crops							
1982		108					22,500
1983		115					29,700
1984		111					31,900
1985		108					19,300
1986		114					37,213
State Total 3/							
1982	5,492.9	5,263.9					1,356,088
1983	5,431.4	4,999.4					1,484,640
1984	5,381.4	5,104.4					1,508,748
1985	5,594.7	5,375.7					1,229,988
1986	5,101.3	4,882.3					1,056,476

1/ Corn planted acres is "Planted for Grain and Silage".
2/ Data provided by the American Dry Pea and Lentil Association.
3/ Planted acres for State total includes harvested acreage for hops, hay, mint, dry edible peas, lentils, and other crops.

ALL WHEAT

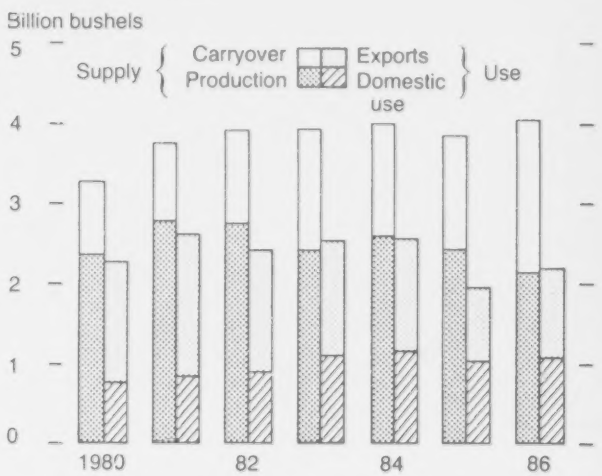
Production of all wheat in Washington decreased 9 percent from 1985 to 116,850,000 bushels. Production has been on the decline since 1984 after reaching a peak of 172,570,000 bushels in 1983. Dry spring conditions and hot weather during late spring and early summer resulted in a State average yield of 48.5 bushels per acre, only 0.8 bushels higher than the 1985 average. Acreage harvested declined 280,000 acres from a year ago to 2,410,000 acres. The reduction was due to the decline in winter wheat acreage since spring wheat acreage increased 20,000 acres from 1985.

Acreage, Production, and Price

Year	Acres Harvested	Yield Per Acre	Production	Season Avg. Price
	1,000	Bushels	1,000 Bushels	$/Bu.
1977	2,985	33.9	101,305	2.81
1978	2,910	44.0	128,160	3.45
1979	2,980	39.6	118,000	3.90
1980	3,160	50.7	160,220	3.98
1981	3,050	55.2	168,350	3.92
1982	2,840	48.9	138,880	4.04
1983	2,690	64.2	172,570	3.69
1984	2,610	61.4	160,350	3.45
1985	2,690	47.7	128,250	3.41
1986	2,410	48.5	116,850	2.45

Wheat Supply and Use

With the smallest wheat crop in 6 years, wheat use in 1986/87 is likely to exceed production for only the second time in the last 7 years.



1985 preliminary, 1986 projected. Supply includes imports. Year beginning June 1.

All Wheat Stocks

Crop Year	October			January *			April *			June *		
	On-Farm	Off-Farm	Total	On-Farm	Off-Farm	Total	On-Farm	Off-Farm	Total	On-Farm	Off-Farm	Total
	1,000 Bushels											
1977	33,431	92,558	125,989	21,274	75,877	97,151	11,144	45,280	56,424	6,585	29,927	36,512
1978	39,730	93,019	132,749	23,069	70,072	93,141	12,816	47,507	60,323	6,408	39,472	45,880
1979	31,860	99,881	131,741	23,600	82,914	106,514	12,980	54,760	67,740	8,260	35,873	44,133
1980	49,668	134,651	184,319	32,044	98,753	130,797	16,022	61,936	77,958	6,409	40,102	46,511
1981	42,088	124,768	166,856	30,303	94,107	124,410	21,886	67,505	89,391	16,835	47,425	64,260
1982	44,442	124,614	169,056	31,942	102,873	134,815	26,387	77,856	104,243	20,832	64,282	85,114
1983	58,674	154,214	212,888	50,045	113,621	163,666	32,877	90,253	123,130	22,434	76,454	98,888
1984	52,916	147,996	200,912	40,088	116,865	156,953	28,863	93,006	121,869	22,449	85,775	108,224
1985	43,605	158,583	202,188	38,475	132,436	170,911	29,498	111,776	141,274	25,650	102,031	127,681
1986 1/	65,089	155,694	220,783	41,000	135,518	176,518	28,000	113,021	141,021	19,000	97,511	116,511

1/ Survey dates changed to September 1, December 1, March 1, and June 1 beginning with the 1986 crop.

* Following Year.

All Wheat by County

County and District	1985 Acreage Planted	1985 Acreage Harvested	1985 Yield Per Acre	1985 Production	1986 Acreage Planted	1986 Acreage Harvested	1986 Yield Per Acre	1986 Production
	Acres		Bushels	Bushels	Acres		Bushels	Bushels
West								
Clallam	500	500	66.0	33,000				
Clark	800	800	65.0	52,000	600	500	66.0	33,000
Island	500	500	86.0	43,000	400	400	82.5	33,000
Lewis	1,000	1,000	88.0	88,000	700	700	91.4	64,000
Skagit	3,900	3,700	103.5	383,000	5,400	4,900	76.5	375,000
Snohomish	200	200	85.0	17,000	900	900	81.1	73,000
Whatcom	3,200	1,400	68.6	96,000	3,200	500	68.0	34,000
Other Co.	900	900	72.2	65,000	800	600	63.3	38,000
Total	11,000	9,000	86.3	777,000	12,000	8,500	76.5	650,000
Central								
Benton	155,500	150,000	26.5	3,971,000	158,800	154,000	29.5	4,537,000
Chelan	4,400	4,300	26.7	115,000	4,400	3,900	27.9	109,000
Kittitas	9,900	9,800	77.0	755,000	9,600	9,100	56.4	513,000
Klickitat	51,600	48,600	32.4	1,576,000	53,900	51,300	30.5	1,563,000
Okanogan	12,100	11,800	28.6	337,000	11,500	10,700	23.8	255,000
Yakima	94,500	90,500	56.6	5,126,000	61,300	59,000	51.0	3,010,000
Total	328,000	315,000	37.7	11,880,000	299,500	288,000	34.7	9,987,000
Northeast								
Ferry	1,300	1,300	33.8	44,000	2,000	1,800	35.0	63,000
Pend Oreille	300	300	26.7	8,000	300	300	33.3	10,000
Spokane	116,800	113,100	43.4	4,906,000	113,000	108,300	53.4	5,781,000
Stevens	12,100	11,300	36.4	411,000	12,200	11,600	46.0	534,000
Total	130,500	126,000	42.6	5,369,000	127,500	122,000	52.4	6,388,000
East Central								
Adams	513,000	491,000	39.9	19,586,000	462,100	434,000	37.0	16,076,000
Douglas	241,000	231,000	38.2	8,833,000	218,500	200,000	32.8	6,551,000
Franklin	131,500	127,000	51.7	6,561,000	140,700	128,000	53.2	6,804,000
Grant	300,000	259,000	67.9	17,586,000	264,900	245,000	61.3	15,017,000
Lincoln	364,500	332,000	49.7	16,512,000	290,800	259,500	46.6	12,081,000
Total	1,550,000	1,440,000	48.0	69,078,000	1,377,000	1,266,500	44.6	56,529,000
Southeast								
Asotin	26,200	25,200	27.8	700,000	30,600	28,000	43.1	1,206,000
Columbia	88,300	86,200	51.6	4,449,000	85,500	79,500	56.1	4,463,000
Garfield	66,800	65,800	38.9	2,560,000	65,800	63,700	45.4	2,892,000
Walla Walla	252,500	235,400	47.7	11,235,000	224,000	215,800	59.0	12,726,000
Whitman	396,700	387,400	57.3	22,202,000	348,100	338,000	65.1	22,009,000
Total	830,500	800,000	51.4	41,146,000	754,000	725,000	59.7	43,296,000
State Total	2,850,000	2,690,000	47.7	128,250,000	2,570,000	2,410,000	48.5	116,850,000

- Not Applicable.

WINTER WHEAT

Winter wheat production in Washington during 1986 declined 11 percent from a year earlier to 102,900,000 bushels, the third consecutive decline since reaching a peak of 162,500,000 bushels in 1983. Production is at its lowest level since 1979. The decrease was due to a 300,000 acre decline in acreage harvested since the average yield per acre was one bushel higher than in 1985. Spring precipitation was very low in most areas of the State, and hot late-spring and early-summer temperatures further stressed the crop. Many growers also reported cheatgrass to be a major factor in contributing to reduced outputs. Harvest began in the southeast during the first week of July and was virtually complete by the end of August. Weather during harvest was very good and was interrupted for only brief periods by rain showers early in the period.

SPRING WHEAT

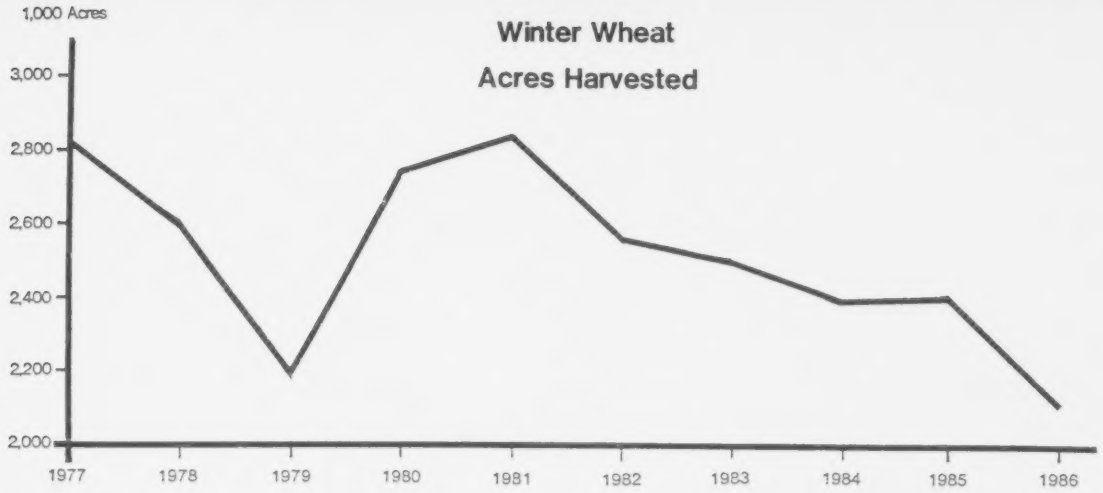
Spring field work was underway by the first of March this year and spring cereals were being seeded in south-central counties. Dry conditions from early spring through harvest resulted in relatively low yields per acre for spring wheat producers this year. The State average of 45 bushels per acre is equal to last year's average but 10 bushels lower than 1984. Acreage harvested was up 20,000 acres from 1985, due in part to the need for growers to reseed cheatgrass infested winter wheat acres to spring varieties. Production was up 7 percent from a year ago due to the increase in acreage harvested. Harvest was completed during the second week of September.

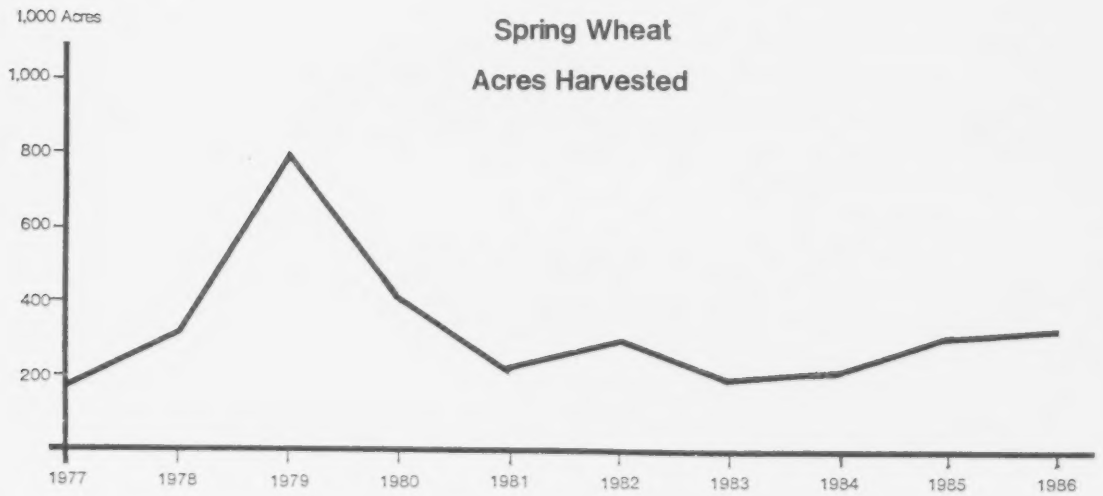
Acreage, Production, and Price

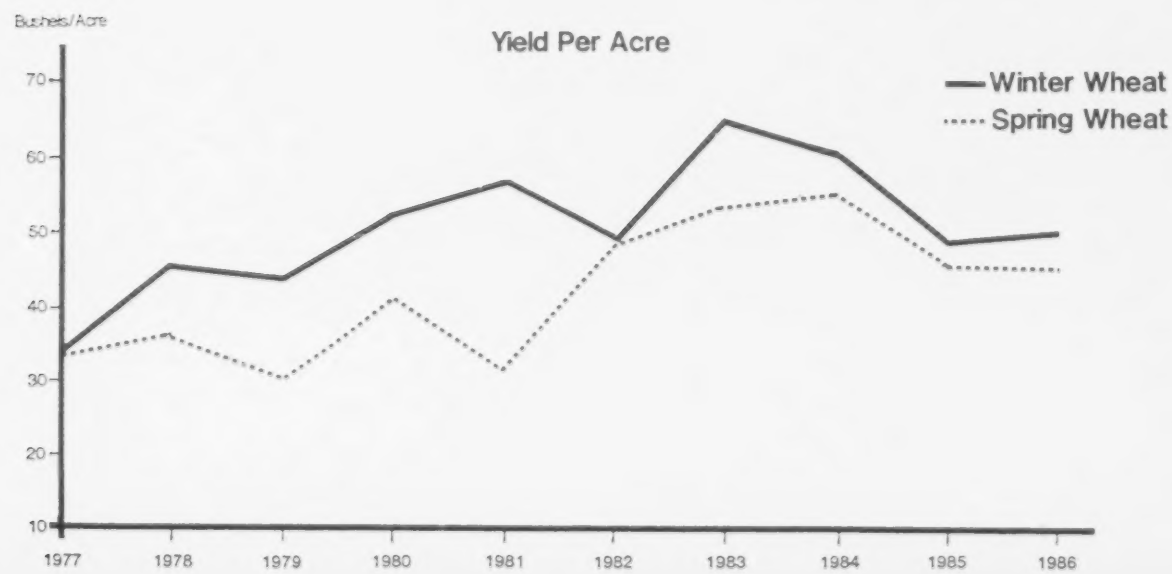
Year	Acres Harvested	Yield Per Acre	Production
	1,000	Bushels	1,000 Bushels
1977	2,800	34	95,200
1978	2,600	45	117,000
1979	2,200	43	94,600
1980	2,750	52	143,000
1981	2,830	57	161,310
1982	2,560	49	125,440
1983	2,500	65	162,500
1984	2,400	62	148,800
1985	2,400	48	115,200
1986	2,100	49	102,900

Acreage, Production, and Price

Year	Acres Harvested	Yield Per Acre	Production
	1,000	Bushels	1,000 Bushels
1977	185	33	6,105
1978	310	36	11,160
1979	780	30	23,400
1980	410	42	17,220
1981	220	32	7,040
1982	280	48	13,440
1983	190	53	10,070
1984	210	55	11,550
1985	290	45	13,050
1986	310	45	13,950


1,000 Acres
Winter Wheat
Acres Harvested
3,000
2,800
2,600
2,400
2,200
2,000
1977
1978
1979
1980
1981
1982
1983
1984
1985
1986


1,000 Acres
Spring Wheat
Acres Harvested
1,000
800
600
400
200
1977
1978
1979
1980
1981
1982
1983
1984
1985
1986


Bushels/Acre
Yield Per Acre
Winter Wheat
Spring Wheat
70
60
50
40
30
20
10
1977
1978
1979
1980
1981
1982
1983
1984
1985
1986

Winter Wheat, 1985

County And District	All				Irrigated			Dryland		
	Acreage				Acreage			Acreage		
	Planted	Harvested	Yld	Production	Harvested	Yld	Production	Harvested	Yld	Production
	Acres		Bushels		Acres	Bushels		Acres	Bushels	
West										
Clark	800	800	65.0	52,000	-	-	-	800	65.0	52,000
Island	500	500	86.0	43,000	-	-	-	500	86.0	43,000
Lewis	1,000	1,000	88.0	88,000	-	-	-	1,000	88.0	88,000
Skagit	3,700	3,500	104.9	367,000	-	-	-	3,500	104.9	367,000
Whatcom	3,200	1,400	68.6	96,000	-	-	-	1,400	68.6	96,000
Other Co.	800	800	72.5	58,000	-	-	-	800	72.5	58,000
Total	10,000	8,000	88.0	704,000	-	-	-	8,000	88.0	704,000
Central										
Benton	124,000	120,000	27.3	3,277,000	3,700	116.2	430,000	116,300	24.5	2,847,000
Chelan	2,000	1,900	35.3	67,000	-	-	-	1,900	35.3	67,000
Kittitas	6,000	5,900	77.1	455,000	4,200	96.2	404,000	1,700	30.0	51,000
Klickitat	45,000	42,000	30.3	1,273,000	1,800	80.0	144,000	40,200	28.1	1,129,000
Okanogan	10,500	10,200	30.2	308,000	100	50.0	5,000	10,100	30.0	303,000
Yakima	52,500	50,000	44.3	2,215,000	9,700	103.7	1,006,000	40,300	30.0	1,209,000
Total	240,000	230,000	33.0	7,595,000	19,500	102.0	1,989,000	210,500	26.6	5,606,000
Northeast										
Ferry	800	800	35.0	28,000	100	50.0	5,000	700	32.9	23,000
Pend Oreille	100	100	30.0	3,000	-	-	-	100	30.0	3,000
Spokane	106,600	103,100	44.6	4,599,000	800	73.8	59,000	102,300	44.4	4,540,000
Stevens	8,500	8,000	37.5	300,000	600	68.3	41,000	7,400	35.0	259,000
Total	116,000	112,000	44.0	4,930,000	1,500	70.0	105,000	110,500	43.7	4,825,000
East Central										
Adams	460,000	440,000	39.9	17,549,000	67,000	69.0	4,620,000	373,000	34.7	12,929,000
Douglas	204,000	195,000	41.1	8,020,000	500	80.0	40,000	194,500	41.0	7,980,000
Franklin	119,000	115,000	49.9	5,740,000	31,500	100.0	3,150,000	83,500	31.0	2,590,000
Grant	265,000	225,000	66.4	14,950,000	120,000	91.8	11,010,000	105,000	37.5	3,940,000
Lincoln	336,000	305,000	51.3	15,657,000	34,000	69.6	2,367,000	271,000	49.0	13,290,000
Total	1,384,000	1,280,000	48.4	61,916,000	253,000	83.7	21,187,000	1,027,000	39.7	40,729,000
Southeast										
Asotin	25,000	24,000	28.0	672,000	-	-	-	24,000	28.0	672,000
Columbia	83,000	81,000	53.1	4,298,000	300	60.0	18,000	80,700	53.0	4,280,000
Garfield	63,000	62,000	39.6	2,457,000	-	-	-	62,000	39.6	2,457,000
Walla Walla	247,000	230,000	47.8	10,992,000	14,200	78.9	1,120,000	215,800	45.7	9,872,000
Whitman	382,000	373,000	58.0	21,636,000	1,500	57.3	86,000	371,500	58.0	21,550,000
Total	800,000	770,000	52.0	40,055,000	16,000	76.5	1,224,000	754,000	51.5	38,831,000
State Total	2,550,000	2,400,000	48.0	115,200,000	290,000	84.5	24,505,000	2,110,000	43.0	90,695,000

- Not Applicable.

Winter Wheat, 1986

County And District	All				Irrigated			Dryland		
	Acreage Planted	Acreage Harvested	Yld	Production	Acreage Harvested	Yld	Production	Acreage Harvested	Yld	Production
	Acres		Bushels			Bushels		Acres	Bushels	
West										
Clark	600	500	66.0	33,000	-	-	-	500	66.0	33,000
Island	400	400	82.5	33,000	-	-	-	400	82.5	33,000
Lewis	700	700	91.4	64,000	-	-	-	700	91.4	64,000
Skagit	3,500	3,300	80.6	266,000	-	-	-	3,300	80.6	266,000
Snohomish	700	700	80.0	56,000	-	-	-	700	80.0	56,000
Whatcom	2,400	200	70.0	14,000	-	-	-	200	70.0	14,000
Other Co.	200	200	70.0	14,000	-	-	-	200	70.0	14,000
Total	8,500	6,000	80.0	480,000	-	-	-	6,000	80.0	480,000
Central										
Benton	94,000	90,000	27.2	2,448,000	3,500	112.0	392,000	86,500	23.8	2,056,000
Chelan	2,000	1,500	39.3	59,000	-	-	-	1,500	39.3	59,000
Kittitas	6,600	6,100	48.9	298,000	1,500	102.0	153,000	4,600	31.5	145,000
Klickitat	46,600	44,000	29.5	1,298,000	900	77.8	70,000	43,100	28.5	1,228,000
Okanogan	8,100	7,400	23.8	176,000	100	40.0	4,000	7,300	23.6	172,000
Yakima	33,200	31,000	37.0	1,147,000	5,000	99.4	497,000	26,000	25.0	650,000
Total	190,500	180,000	30.1	5,426,000	11,000	101.5	1,116,000	169,000	25.5	4,310,000
Northeast										
Ferry	800	600	36.7	22,000	-	-	-	600	36.7	22,000
Pend Oreille	100	100	30.0	3,000	-	-	-	100	30.0	3,000
Spokane	103,600	99,300	55.2	5,477,000	1,000	80.0	80,000	98,300	54.9	5,397,000
Stevens	8,500	8,000	51.8	414,000	500	62.0	31,000	7,500	51.1	383,000
Total	113,000	108,000	54.8	5,916,000	1,500	74.0	111,000	106,500	54.5	5,805,000
East Central										
Adams	415,000	390,000	36.1	14,091,000	60,500	75.0	4,536,000	329,500	29.0	9,555,000
Douglas	197,000	180,000	34.2	6,151,000	800	70.0	56,000	179,200	34.0	6,095,000
Franklin	126,500	114,000	51.0	5,819,000	33,000	110.0	3,629,000	81,000	27.0	2,190,000
Grant	220,000	202,000	61.0	12,315,000	82,200	99.5	8,180,000	119,800	34.5	4,135,000
Lincoln	271,000	240,000	46.8	11,229,000	28,000	75.5	2,114,000	212,000	43.0	9,115,000
Total	1,229,500	1,126,000	44.1	49,605,000	204,500	90.5	18,515,000	921,500	33.7	31,090,000
Southeast										
Asotin	26,500	24,000	44.6	1,070,000	-	-	-	24,000	44.6	1,070,000
Columbia	83,000	77,000	56.6	4,355,000	300	66.7	20,000	76,700	56.5	4,335,000
Garfield	61,000	59,000	46.6	2,747,000	500	54.0	27,000	58,500	46.5	2,720,000
Walla Walla	218,000	210,000	59.5	12,503,000	15,200	79.1	1,203,000	194,800	58.0	11,300,000
Whitman	320,000	310,000	67.1	20,798,000	2,000	74.0	148,000	308,000	67.0	20,650,000
Total	708,500	680,000	61.0	41,473,000	18,000	77.7	1,398,000	662,000	60.5	40,075,000
State Total	2,250,000	2,100,000	49.0	102,900,000	235,000	90.0	21,140,000	1,865,000	43.8	81,760,000

- Not applicable.

Spring Wheat, 1985

County And District	All				Irrigated			Dryland		
	Acreage				Acreage			Acreage		
	Planted	Harvested	Yld	Production	Harvested	Yld	Production	Harvested	Yld	Production
	Acres		Bushels		Acres	Bushels		Acres	Bushels	
West										
Clallam	500	500	66.0	33,000	-	-	-	500	66.0	33,000
Skagit	200	200	80.0	16,000	-	-	-	200	80.0	16,000
Snohomish	200	200	85.0	17,000	-	-	-	200	85.0	17,000
Other Co.	100	100	70.0	7,000	-	-	-	100	70.0	7,000
Total	1,000	1,000	73.0	73,000	-	-	-	1,000	73.0	73,000
Central										
Benton	31,500	30,000	23.1	694,000	3,600	80.0	288,000	26,400	15.4	406,000
Chelan	2,400	2,400	20.0	48,000	-	-	-	2,400	20.0	48,000
Kittitas	3,900	3,900	76.9	300,000	3,900	76.9	300,000	-	-	-
Klickitat	6,600	6,600	45.9	303,000	3,300	67.9	224,000	3,300	23.9	79,000
Okanogan	1,600	1,600	18.1	29,000	100	50.0	5,000	1,500	16.0	24,000
Yakima	42,000	40,500	71.9	2,911,000	36,600	77.6	2,841,000	3,900	17.9	70,000
Total	88,000	85,000	50.4	4,285,000	47,500	77.0	3,658,000	37,500	16.7	627,000
Northeast										
Ferry	500	500	32.0	16,000	-	-	-	500	32.0	16,000
Pend Oreille	200	200	25.0	5,000	100	30.0	3,000	100	20.0	2,000
Spokane	10,200	10,000	30.7	307,000	600	65.0	39,000	9,400	28.5	268,000
Stevens	3,600	3,300	33.6	111,000	300	46.7	14,000	3,000	32.3	97,000
Total	14,500	14,000	31.4	439,000	1,000	56.0	56,000	13,000	29.5	383,000
East Central										
Adams	53,000	51,000	39.9	2,037,000	25,000	61.1	1,527,000	26,000	19.6	510,000
Douglas	37,000	36,000	22.6	813,000	-	-	-	36,000	22.6	813,000
Franklin	12,500	12,000	68.4	821,000	9,000	84.0	756,000	3,000	21.7	65,000
Grant	35,000	34,000	77.5	2,636,000	29,000	87.0	2,523,000	5,000	22.6	113,000
Lincoln	28,500	27,000	31.7	855,000	6,000	50.0	300,000	21,000	26.4	555,000
Total	166,000	160,000	44.8	7,162,000	69,000	74.0	5,106,000	91,000	22.6	2,056,000
Southeast										
Asotin	1,200	1,200	23.3	28,000	-	-	-	1,200	23.3	28,000
Columbia	5,300	5,200	29.0	151,000	-	-	-	5,200	29.0	151,000
Garfield	3,800	3,800	27.1	103,000	-	-	-	3,800	27.1	103,000
Walla Walla	5,500	5,400	45.0	243,000	2,500	58.0	145,000	2,900	33.8	98,000
Whitman	14,700	14,400	39.3	566,000	-	-	-	14,400	39.3	566,000
Total	30,500	30,000	36.4	1,091,000	2,500	58.0	145,000	27,500	34.4	946,000
State Total	300,000	290,000	45.0	13,050,000	120,000	74.7	8,965,000	170,000	24.0	4,085,000

- Not Applicable.

Spring Wheat, 1986

County And District	All				Irrigated			Dryland		
	Acreage				Acreage			Acreage		
	Planted	Harvested	Yld	Production	Harvested	Yld	Production	Harvested	Yld	Production
	Acres		Bushels		Acres	Bushels		Acres	Bushels	
West										
Skagit	1,900	1,600	68.1	109,000	-	-	-	1,600	68.1	109,000
Snohomish	200	200	85.0	17,000	-	-	-	200	85.0	17,000
Whatcom	800	300	66.7	20,000	-	-	-	300	66.7	20,000
Other Co.	600	400	60.0	24,000	-	-	-	400	60.0	24,000
Total	3,500	2,500	68.0	170,000	-	-	-	2,500	68.0	170,000
Central										
Benton	64,800	64,000	32.6	2,089,000	10,000	88.5	885,000	54,000	22.3	1,204,000
Chelan	2,400	2,400	20.8	50,000	-	-	-	2,400	20.8	50,000
Kittitas	3,000	3,000	71.7	215,000	2,800	75.0	210,000	200	25.0	5,000
Klickitat	7,300	7,300	36.3	265,000	2,200	61.8	136,000	5,100	25.3	129,000
Okanogan	3,400	3,300	23.9	79,000	300	53.3	16,000	3,000	21.0	63,000
Yakima	28,100	28,000	66.5	1,863,000	21,700	82.4	1,787,000	6,300	12.1	76,000
Total	109,000	108,000	42.2	4,561,000	37,000	82.0	3,034,000	71,000	21.5	1,527,000
Northeast										
Ferry	1,200	1,200	34.2	41,000	-	-	-	1,200	34.2	41,000
Pend Oreille	200	200	35.0	7,000	100	40.0	4,000	100	30.0	3,000
Spokane	9,400	9,000	33.8	304,000	600	53.3	32,000	8,400	32.4	272,000
Stevens	3,700	3,600	33.3	120,000	300	46.7	14,000	3,300	32.1	106,000
Total	14,500	14,000	33.7	472,000	1,000	50.0	50,000	13,000	32.5	422,000
East Central										
Adams	47,100	44,000	45.1	1,985,000	20,000	70.5	1,410,000	24,000	24.0	575,000
Douglas	21,500	20,000	20.0	400,000	-	-	-	20,000	20.0	400,000
Franklin	14,200	14,000	70.4	985,000	10,000	89.0	890,000	4,000	23.8	95,000
Grant	44,900	43,000	62.8	2,702,000	26,000	86.5	2,250,000	17,000	26.6	452,000
Lincoln	19,800	19,500	43.7	852,000	4,000	60.0	240,000	15,500	39.5	612,000
Total	147,500	140,500	49.3	6,924,000	60,000	79.8	4,790,000	80,500	26.5	2,134,000
Southeast										
Asotin	4,100	4,000	34.0	136,000	-	-	-	4,000	34.0	136,000
Columbia	2,500	2,500	43.2	108,000	-	-	-	2,500	43.2	108,000
Garfield	4,800	4,700	30.9	145,000	-	-	-	4,700	30.9	145,000
Walla Walla	6,000	5,800	38.4	223,000	1,700	60.0	102,000	4,100	29.5	121,000
Whitman	28,100	28,000	43.3	1,211,000	300	80.0	24,000	27,700	42.9	1,187,000
Total	45,500	45,000	40.5	1,823,000	2,000	63.0	126,000	43,000	39.5	1,697,000
State Total	320,000	310,000	45.0	13,950,000	100,000	80.0	8,000,000	210,000	28.3	5,950,000

BARLEY

Dry spring conditions and hot late spring and early summer conditions resulted in a relatively low State average barley yield per acre for 1986. The average yield was two bushels higher than 1985 but 15 bushels lower than 1984. Acreage harvested was 280,000 acres lower than the record 1,180,000 acres harvested in 1985. Due to the reduction in harvested acres, production was 20 percent lower than 1985 falling to 45,000,000 bushels. Harvest began during the first week of July and was nearly complete by the first week of September.

Leading Counties

Acreage, Production, and Price

Year	Acres Harvested	Yield Per Acre	Production	Season Avg. Price
	1,000	Bushels	1,000 Bushels	$/Bu.
1977	350	27	9,450	1.87
1978	380	61	23,180	1.88
1979	315	54	17,010	2.54
1980	430	75	32,250	2.91
1981	760	58	44,080	2.50
1982	810	61	49,410	2.23
1983	850	64	54,400	2.58
1984	980	65	63,700	2.25
1985	1,180	48	56,640	1.98
1986	900	50	45,000	1.60

Barley Stocks

Crop Year	October			January *			April *			June *		
	On-Farm	Off-Farm	Total	On-Farm	Off-Farm	Total	On-Farm	Off-Farm	Total	On-Farm	Off-Farm	Total
	1,000 Bushels											
1977	2,741	9,154	11,895	1,890	6,182	8,072	1,512	4,559	6,071	662	3,198	3,860
1978	6,954	14,839	21,793	4,172	11,076	15,248	2,782	8,238	11,020	1,159	6,330	7,489
1979	4,583	13,499	18,082	3,402	8,513	11,915	2,552	4,496	7,048	1,021	3,293	4,314
1980	6,773	19,696	26,469	4,193	14,253	18,446	2,258	5,231	7,489	968	2,376	3,344
1981	9,698	24,112	33,810	6,612	14,166	20,778	3,967	5,432	9,399	1,763	4,046	5,809
1982	9,882	29,036	38,918	6,423	23,419	29,842	3,459	14,607	18,066	2,223	12,146	14,369
1983	13,600	33,846	47,446	8,160	20,947	29,107	3,264	16,494	19,758	2,176	11,612	13,788
1984	14,651	35,772	50,423	9,555	22,928	32,483	5,733	17,387	23,120	3,822	14,519	18,341
1985	16,992	36,719	53,711	11,328	28,563	39,891	1/	1/	1/	5,664	20,791	26,455
1986 1/										3,000	21,485	24,485

1/ Estimates discontinued for all quarters except June.
* Following year.

Barley, Percent of Acreage Planted by Variety

Variety/ Year	West	Central	Northeast	E. Central	Southeast	State
			Percent			
Steptoe						
1985	25.6	63.9	58.0	83.5	65.7	71.2
1986	66.7	54.8	54.9	80.4	72.9	73.2
1987	76.7	36.1	43.1	74.7	65.3	64.6
Boyer						
1985	3.3	.0	5.9	2.4	12.0	7.2
1986	4.4	.0	12.2	3.1	11.2	7.1
1987	.0	.9	3.4	2.1	13.7	7.1
Kamiak						
1985	16.7	9.0	2.9	5.0	10.1	7.7
1986	.0	21.0	4.3	2.9	4.0	4.7
1987	.0	32.2	2.7	.9	6.2	5.6
Clark *						
1985	.0	4.1	6.6	.3	.0	.9
1986	.0	.8	4.3	2.3	.5	1.6
1987	.0	.0	11.6	4.3	.2	2.9
Showin						
1985-86	.0	.0	.0	.0	.0	.0
1987	.0	.4	4.3	3.0	2.9	2.8
Morex *						
1985	.0	.5	3.1	.0	1.2	.8
1986	.0	.0	5.5	.0	.5	.7
1987	.0	.0	14.9	.6	.7	2.1
Cougbar						
1985-86	.0	.0	.0	.0	.0	.0
1987	.0	.0	2.9	1.8	2.4	2.0
Advance *						
1985	.0	.0	5.2	1.0	2.3	1 9
1986	.0	3.2	4.4	.9	4.1	2.7
1987	.0	.0	1.1	1.2	2.0	1.4
Kombar						
1985	5.6	4.3	.4	.1	.7	.8
1986	1.1	.3	.0	.2	.2	.2
1987	10.0	3.9	1.3	1.6	.5	1.4
Piston						
1985	.0	.0	1.2	.5	.1	.3
1986	.0	.5	7.6	.9	.1	1.1
1987	.0	.0	2.6	2.1	.6	1.3
Menuet						
1985	14.4	1.7	3.9	.0	.0	.5
1986	.0	.6	.9	.7	.0	.4
1987	.0	.0	9.6	.2	.0	1.1
Andre *						
1985	.0	1.2	4.3	.0	4.2	2.4
1986	.0	.0	.6	.0	2.3	1 0
1987	.0	.0	2.1	.8	1.0	1.0
Klages *						
1985	.0	.0	.0	1.1	.0	.4
1986	.0	.0	.0	.9	.0	.4
1987	.0	1.3	.0	2.2	.0	.9
Columbia						
1985	.0	.1	.0	1.1	.0	.4
1986	1.1	1.3	3.0	.8	.7	1.0
1987	4.4	5.4	.0	.4	.2	.7
Hesk						
1985	.0	2.3	.0	.7	.8	.8
1986	.0	1.6	.0	.0	.4	.3
1987	.0	.2	.0	.4	1.3	.7
Belford						
1985	.0	5.1	.1	.1	.0	.4
1986	5.6	1.3	1.5	.6	.4	.7
1987	.0	2.2	.1	.2	.8	.6
Westbred Gustoe						
1985	2.2	.8	.0	.9	1.0	.9
1986	3.3	3.2	.0	1.9	.8	1.4
1987	1.1	2.8	.1	.3	.2	.5
Other						
1985	32.2	7.0	8.5	3.3	1.9	3.4
1986	17.8	11.3	.9	4.4	1.9	3.6
1987	7.8	14.6	.1	3.2	2.2	3.3
State Total						
1985	100	100	100	100	100	100
1986	100	100	100	100	100	100
1987	100	100	100	100	100	100

* Malting Varieties

Barley, 1985

County And District	All				Irrigated			Dryland		
	Acreage				Acreage			Acreage		
	Planted	Harvested	Yld	Production	Harvested	Yld	Production	Harvested	Yld	Production
	Acres		Bushels		Acres	Bushels		Acres	Bushels	
West										
Clallam	600	600	65.0	39,000	-	-	-	600	65.0	39,000
Clark	2,300	2,300	83.5	192,000	-	-	-	2,300	83.5	192,000
Island	500	500	78.0	39,000	-	-	-	500	78.0	39,000
Lewis	1,600	1,600	60.0	96,000	-	-	-	1,600	60.0	96,000
San Juan	300	300	50.0	15,000	-	-	-	300	50.0	15,000
Skagit	2,000	1,500	93.3	140,000	-	-	-	1,500	93.3	140,000
Snohomish	300	300	80.0	24,000	-	-	-	300	80.0	24,000
Whatcom	800	800	60.0	48,000	-	-	-	800	60.0	48,000
Other Co.	600	600	60.0	36,000	-	-	-	600	60.0	36,000
Total	9,000	8,500	74.0	629,000	-	-	-	8,500	74.0	629,000
Central										
Benton	25,600	25,300	44.4	1,123,000	2,000	130.0	260,000	23,300	37.0	863,000
Chelan	800	800	40.0	32,000	-	-	-	800	40.0	32,000
Kittitas	2,300	2,200	79.5	175,000	2,200	79.5	175,000	-	-	-
Klickitat	28,500	28,000	29.3	821,000	1,000	65.0	65,000	27,000	28.0	756,000
Okanogan	2,300	2,200	31.4	69,000	300	50.0	15,000	1,900	28.4	54,000
Yakima	23,500	22,500	65.1	1,465,000	13,500	87.9	1,186,000	9,000	31.0	279,000
Total	83,000	81,000	45.5	3,685,000	19,000	89.5	1,701,000	62,000	32.0	1,984,000
Northeast										
Ferry	1,500	1,100	48.2	53,000	200	60.0	12,000	900	45.6	41,000
Pend Oreille	700	700	28.6	20,000	300	30.0	9,000	400	27.5	11,000
Spokane	70,400	69,000	44.9	3,100,000	2,500	72.4	181,000	66,500	43.9	2,919,000
Stevens	10,400	9,700	46.1	447,000	1,000	55.0	55,000	8,700	45.1	392,000
Total	83,000	80,500	45.0	3,620,000	4,000	64.3	257,000	76,500	44.0	3,363,000
East Central										
Adams	123,000	122,500	31.9	3,908,000	22,000	54.5	1,198,000	100,500	27.0	2,710,000
Douglas	34,800	34,600	25.6	885,000	100	40.0	4,000	34,500	25.5	881,000
Franklin	28,700	27,900	31.7	885,000	2,900	89.7	260,000	25,000	25.0	625,000
Grant	43,000	38,000	67.0	2,559,000	17,000	104.8	1,782,000	21,000	37.0	777,000
Lincoln	202,500	202,000	45.4	9,173,000	13,000	80.5	1,046,000	189,000	43.0	8,127,000
Total	432,000	425,000	41.0	17,410,000	55,000	78.0	4,290,000	370,000	35.5	13,120,000
Southeast										
Asotin	26,000	25,700	33.1	851,000	400	40.0	16,000	25,300	33.0	835,000
Columbia	25,200	24,900	53.1	1,322,000	200	60.0	12,000	24,700	53.0	1,310,000
Garfield	53,800	53,200	43.1	2,291,000	200	60.0	12,000	53,000	43.0	2,279,000
Walla Walla	97,000	93,500	42.9	4,012,000	5,500	89.5	492,000	88,000	40.0	3,520,000
Whitman	391,000	387,700	58.9	22,820,000	1,700	58.8	100,000	386,000	58.9	22,720,000
Total	593,000	585,000	53.5	31,296,000	8,000	79.0	632,000	577,000	53.1	30,664,000
State Total	1,200,000	1,180,000	48.0	56,640,000	86,000	80.0	6,880,000	1,094,000	45.5	49,760,000

- Not Applicable.

Barley, 1986

County And District	All				Irrigated			Dryland		
	Acreage				Acreage			Acreage		
	Planted	Harvested	Yld	Production	Harvested	Yld	Production	Harvested	Yld	Production
	Acres		Bushels		Acres	Bushels		Acres	Bushels	
West										
Clallam	600	600	95.0	57,000	-	-	-	600	95.0	57,000
Clark	2,500	2,500	82.0	205,000	-	-	-	2,500	82.0	205,000
Island	400	400	72.5	29,000	-	-	-	400	72.5	29,000
Lewis	1,000	1,000	68.0	68,000	-	-	-	1,000	68.0	68,000
San Juan	300	300	56.7	17,000	-	-	-	300	56.7	17,000
Skagit	2,200	2,200	92.3	203,000	-	-	-	2,200	92.3	203,000
Snohomish	500	500	92.0	46,000	-	-	-	500	92.0	46,000
Whatcom	800	800	63.8	51,000	-	-	-	800	63.8	51,000
Other Co.	700	700	75.7	53,000	-	-	-	700	75.7	53,000
Total	9,000	9,000	81.0	729,000	-	-	-	9,000	81.0	729,000
Central										
Benton	22,300	22,000	35.7	785,000	1,700	130.0	221,000	20,300	27.8	564,000
Chelan	500	500	24.0	12,000	-	-	-	500	24.0	12,000
Kittitas	1,600	1,500	67.3	101,000	1,000	86.0	86,000	500	30.0	15,000
Klickitat	21,500	21,000	27.6	580,000	600	66.7	40,000	20,400	26.5	540,000
Okanogan	2,100	2,000	37.5	75,000	200	50.0	10,000	1,800	36.1	65,000
Yakima	14,000	13,000	54.4	707,000	5,000	91.8	459,000	8,000	31.0	248,000
Total	62,000	60,000	37.7	2,260,000	8,500	96.0	816,000	51,500	28.0	1,444,000
Northeast										
Ferry	700	600	41.7	25,000	100	70.0	7,000	500	36.0	18,000
Pend Oreille	500	500	50.0	25,000	200	75.0	15,000	300	33.3	10,000
Spokane	71,200	69,500	51.3	3,563,000	800	72.5	58,000	68,700	51.0	3,505,000
Stevens	9,600	9,400	44.4	417,000	900	57.8	52,000	8,500	42.9	365,000
Total	82,000	80,000	50.4	4,030,000	2,000	66.0	132,000	78,000	50.0	3,898,000
East Central										
Adams	106,000	104,500	38.5	4,027,000	17,700	77.8	1,377,000	86,800	30.5	2,650,000
Douglas	31,000	30,000	29.6	887,000	300	80.0	24,000	29,700	29.1	863,000
Franklin	27,000	25,000	43.2	1,081,000	4,000	97.0	388,000	21,000	33.0	693,000
Grant	42,000	35,500	50.7	1,801,000	10,000	101.0	1,010,000	25,500	31.0	791,000
Lincoln	177,000	175,000	49.1	8,584,000	11,000	79.0	869,000	164,000	47.0	7,715,000
Total	383,000	370,000	44.3	16,380,000	43,000	85.3	3,668,000	327,000	38.9	12,712,000
Southeast										
Asotin	20,000	19,500	48.1	938,000	200	60.0	12,000	19,300	48.0	926,000
Columbia	21,500	20,500	56.0	1,148,000	-	-	-	20,500	56.0	1,148,000
Garfield	41,500	41,500	44.1	1,831,000	400	57.5	23,000	41,100	44.0	1,808,000
Walla Walla	69,000	68,500	50.2	3,442,000	3,800	79.5	302,000	64,700	48.5	3,140,000
Whitman	232,000	231,000	61.7	14,242,000	1,100	56.4	62,000	229,900	61.7	14,180,000
Total	384,000	381,000	56.7	21,601,000	5,500	72.5	399,000	375,500	56.5	21,202,000
State Total	920,000	900,000	50.0	45,000,000	59,000	85.0	5,015,000	841,000	47.5	39,985,000

- Not applicable.

OATS

Oat production for the State during 1986 remained unchanged from 1985 as acreage harvested for grain and average yield per acre remained equal to 1985 levels. A lack of moisture during the spring and summer months resulted, again, in a 65 bushel per acre average yield. Total production during 1985 and 1986 were at the highest level since 1973.

Leading Counties

Acreage, Production, and Price

Year	Acres Harvested	Yield Per Acre	Production	Season Avg. Price
	1,000	Bushels	1,000 Bushels	$/Bu.
1977	35	43	1,505	1.30
1978	30	58	1,740	1.62
1979	33	53	1,749	1.70
1980	30	62	1,860	2.10
1981	32	50	1,600	2.19
1982	30	62	1,860	1.87
1983	33	63	2,079	1.61
1984	30	68	2,040	1.80
1985	33	65	2,145	1.50
1986	33	65	2,145	1.00

Oat Stocks

Crop Year	October			January *			April *			June *		
	On-Farm	Off-Farm	Total	On-Farm	Off-Farm	Total	On-Farm	Off-Farm	Total	On-Farm	Off-Farm	Total
	1,000 Bushels											
1977	873	386	1,259	602	298	900	391	240	631	226	207	433
1978	1,218	569	1,787	940	499	1,439	592	248	840	331	195	526
1979	1,049	697	1,746	717	498	1,215	507	311	818	262	213	475
1980	930	407	1,337	744	358	1,102	521	188	709	260	115	375
1981	1,040	272	1,312	800	213	1,013	560	175	735	256	131	387
1982	1,283	616	1,899	986	602	1,588	707	399	1,106	335	356	691
1983	1,663	615	2,278	1,040	526	1,566	707	314	1,021	312	180	492
1984	1,530	344	1,874	1,020	313	1,333	551	163	714	326	137	463
1985	1,823	270	2,093	1,158	241	1,399	1/	1/	1/	2/	174	2/
1986 1/										2/	133	2/

1/ Estimates discontinued for all quarters except June. 2/ Not published to avoid disclosure of individual reports. * Following year.

Oats by County

County and District	1985				1986			
	Acreage		Yield Per Acre	Production	Acreage		Yield Per Acre	Production
	Planted	Harvested			Planted	Harvested		
	Acres		Bushels		Acres		Bushels	
West								
Clark	11,000	3,300	78.8	260,000	15,000	3,700	85.1	315,000
Lewis	2,800	1,300	73.8	96,000	2,000	1,000	70.0	70,000
Skagit	1,800	300	93.3	28,000	1,500	200	95.0	19,000
Snohomish	800	100	70.0	7,000	500	100	90.0	9,000
Whatcom	1,800	100	80.0	8,000	1,900	100	80.0	8,000
Other Co.	1,800	900	76.7	69,000	2,100	400	75.0	30,000
Total	20,000	6,000	78.0	468,000	23,000	5,500	82.0	451,000
Central								
Benton	800	200	90.0	18,000	300	-	-	-
Kittitas	3,000	1,900	110.0	209,000	2,600	1,500	106.0	159,000
Klickitat	1,000	200	85.0	17,000	1,000	300	70.0	21,000
Okanogan	1,800	900	70.0	63,000	1,200	800	60.0	48,000
Yakima	2,400	800	106.3	85,000	1,400	400	90.0	36,000
Total	9,000	4,000	98.0	392,000	6,500	3,000	88.0	264,000
Northeast								
Ferry	1,800	300	53.3	16,000	1,000	600	55.0	33,000
Pend Oreille	2,200	1,500	48.0	72,000	2,000	1,200	50.0	60,000
Spokane	15,000	7,200	51.3	369,000	16,000	8,500	60.0	510,000
Stevens	9,000	5,000	60.0	300,000	9,500	6,200	57.1	354,000
Total	28,000	14,000	54.1	757,000	28,500	16,500	58.0	957,000
East Central								
Adams	500	300	76.7	23,000	400	200	65.0	13,000
Douglas	3,000	2,500	48.4	121,000	2,500	2,000	40.0	80,000
Franklin	500	100	70.0	7,000	600	200	70.0	14,000
Grant	3,500	1,900	65.8	125,000	3,500	1,800	65.6	118,000
Lincoln	1,500	1,200	55.0	66,000	1,000	800	62.5	50,000
Total	9,000	6,000	57.0	342,000	8,000	5,000	55.0	275,000
Southeast								
Columbia	600	500	70.0	35,000	500	400	67.5	27,000
Garfield	300	200	50.0	10,000	300	200	60.0	12,000
Whitman	2,500	2,000	63.5	127,000	2,800	2,100	70.0	147,000
Other Co.	600	300	46.7	14,000	400	300	40.0	12,000
Total	4,000	3,000	62.0	186,000	4,000	3,000	66.0	198,000
State Total	70,000	33,000	65.0	2,145,000	70,000	33,000	65.0	2,145,000

- Not Applicable.

CORN

Corn for grain production in Washington decreased 6 percent from 1985 as acreage harvested was 15,000 acres lower. However, the decline was partially offset by a 10 bushel increase in the average yield per acre to 170 bushels, the highest average of record. Corn acreage harvested for silage was 5,000 acres lower than 1985, however total silage production was down only 10,000 tons from 1985 due to an increase in the average yield. The average silage yield per acre was also at a record high level, increasing 2 tons per acre from last year and surpassing the previous record of 23 tons per acre by one ton.

Corn for Grain

Year	Acres Harvested	Yield Per Acre	Production	Season Avg. Price
	1,000	Bushels	1,000 Bushels	$/Bu.
1977	64	119	7,616	2.35
1978	65	114	7,410	2.64
1979	97	123	11,931	2.93
1980	88	125	11,000	3.84
1981	114	130	14,820	3.05
1982	160	150	24,000	3.00
1983	110	160	17,600	3.62
1984	150	155	23,250	3.00
1985	135	160	21,600	2.66
1986	120	170	20,400	1.85

Corn for Silage

Year	Acres Harvested	Yield Per Acre	Production	Season Avg. Price
	1,000	Bushels	1,000 Bushels	$/Bu.
1977	64	20	1,280	23.50
1978	53	23	1,219	23.00
1979	50	22	1,100	25.00
1980	57	21	1,197	23.00
1981	49	21	1,029	23.50
1982	60	22	1,320	23.00
1983	50	23	1,150	25.00
1984	50	23	1,150	23.00
1985	55	22	1,210	22.00
1986	50	24	1,200	22.50

Corn Grain Stocks

Crop Year	January *			April *			June *			October *		
	On-Farm	Off-Farm	Total Total	On-Farm	Off-Farm	Total	On-Farm	Off-Farm	Total	On-Farm	Off-Farm	Total
	1,000 Bushels											
1977	4,189	2,515	6,704	1,523	2,645	4,168	762	4,944	5,706	114	254	368
1978	2,964	4,148	7,112	1,112	3,747	4,859	593	3,536	4,129	148	4,307	4,455
1979	4,057	5,986	10,043	1,909	5,590	7,499	954	4,812	5,766	358	4,137	4,495
1980	3,850	4,132	7,982	2,310	5,853	8,163	1,430	1,945	3,375	330	2,471	2,801
1981	5,928	6,449	12,377	2,519	5,633	8,152	1,482	1,681	3,163	1,186	391	1,577
1982	6,720	3,552	10,272	3,600	3,023	6,623	1,920	1,727	3,647	960	2,172	3,132
1983	5,280	8,232	13,512	3,168	6,748	9,916	1,760	6,356	8,116	158	1,396	1,554
1984	7,440	11,393	18,833	2,093	5,422	7,515	1,163	1,593	2,756	116	944	1,060
1985	4,320	8,549	12,869	1/	4,712	1/	1/	2,433	1/	1/	2,170	1/
1986 2/	1/	9,126	1/	1/	6,125	1/	1/	5,112	1/	1/	6,301	1/

1/ Not published to avoid disclosure of individual reports. 2/ Survey dates changed to December 1, March 1, June 1, and September 1 beginning with the 1986 crop.

* Following year.

Corn for Grain by County

County and District	1985 Acreage Planted All Purpose	1985 Acreage Harvested For Grain	1985 Yield Per Acre	1985 Production	1986 Acreage Planted All Purpose	1986 Acreage Harvested For Grain	1986 Yield Per Acre	1986 Production
	Acres		Bushels		Acres		Bushels	
West								
Other Co.	31,500	500	90.0	45,000	29,000	0	.0	0
Total	31,500	500	90.0	45,000	29,000	0	.0	0
Central								
Benton	36,500	35,900	168.0	6,032,000	36,000	32,800	197.3	6,470,000
Kittitas	500	200	110.0	22,000	400	0	.0	0
Klickitat	900	600	165.0	99,000	1,100	800	150.0	120,000
Okanogan	300	0	.0	0	300	0	.0	0
Yakima	21,000	12,000	144.5	1,734,000	19,200	13,200	152.0	2,006,000
Total	59,200	48,700	162.0	7,887,000	57,000	46,800	183.7	8,596,000
Northeast								
Stevens	300	0	.0	0	-	-	-	-
Other Co.	-	-	-	-	1,000	800	175.0	140,000
Total	300	0	.0	0	1,000	800	175.0	140,000
East Central								
Adams	13,300	12,800	154.0	1,971,000	12,500	11,500	149.0	1,713,000
Franklin	31,000	29,000	163.0	4,728,000	25,800	24,700	170.0	4,198,000
Grant	42,000	32,200	150.5	4,845,000	34,700	27,200	151.0	4,106,000
Lincoln	200	0	.0	0	500	0	.0	0
Total	86,500	74,000	156.0	11,544,000	73,500	63,400	153.0	10,017,000
Southeast								
Walla Walla	12,500	11,800	180.0	2,124,000	9,500	9,000	183.0	1,647,000
Total	12,500	11,800	180.0	2,124,000	9,500	9,000	183.0	1,647,000
State Total	190,000	135,000	160.0	21,600,000	170,000	120,000	170.0	20,400,000

- Not Applicable.

Corn for Silage by County

County and District	1985 Acreage Planted All Purpose	1985 Acreage Harvested For Silage	1985 Yield Per Acre	1985 Production	1986 Acreage Planted All Purpose	1986 Acreage Harvested For Silage	1986 Yield Per Acre	1986 Production
	Acres		Tons		Acres		Tons	
West								
Clark	5,000	5,000	22.0	109,800	3,000	3,000	20.5	61,500
Cowlitz	900	800	19.0	15,200	1,000	1,000	21.5	21,500
Grays Harbor	600	600	20.0	12,000	600	600	21.5	12,900
Island	700	700	21.0	14,700	700	700	23.0	16,100
King	1,100	1,100	18.0	19,800	1,200	1,200	23.0	27,600
Lewis	1,300	1,300	19.0	24,700	1,300	1,300	19.5	25,300
Pierce	900	900	18.0	16,200	900	900	19.4	17,500
Skagit	7,000	7,000	19.0	133,000	6,900	6,900	22.0	151,800
Snohomish	4,400	4,300	20.0	86,000	4,400	4,400	22.5	99,000
Thurston	300	300	22.0	6,600	300	300	22.0	6,600
Wahkiakum	500	500	22.0	11,000	500	500	22.0	11,000
Whatcom	8,500	8,500	20.0	170,000	8,000	8,000	22.7	181,200
Other Co.	300	0	.0	0	200	200	20.0	4,000
Total	31,500	31,000	20.0	619,000	29,000	29,000	21.9	636,000
Central								
Benton	36,500	600	30.8	18,500	36,000	3,200	30.0	96,000
Kittitas	500	300	15.0	4,500	400	400	17.0	6,800
Klickitat	900	300	17.0	5,100	1,100	300	18.0	5,400
Okanogan	300	300	13.0	3,900	300	300	14.0	4,200
Yakima	21,000	9,000	25.6	230,000	19,200	6,000	25.4	152,600
Total	59,200	10,500	25.0	262,000	57,000	10,200	26.0	265,000
Northeast								
Stevens	300	300	20.0	6,000	1,000	200	20.0	4,000
Total	300	300	20.0	6,000	1,000	200	20.0	4,000
East Central								
Adams	13,300	500	26.0	13,000	12,500	1,000	28.5	28,500
Franklin	31,000	2,000	23.0	46,000	25,800	1,100	26.5	29,200
Grant	42,000	9,800	25.0	245,000	34,700	7,500	28.9	216,800
Lincoln	200	200	10.0	2,000	500	500	17.0	8,500
Total	86,500	12,500	24.5	306,000	73,500	10,100	28.0	283,000
Southeast								
Walla Walla	12,500	700	24.3	17,000	9,500	500	24.0	12,000
Total	12,500	700	24.3	17,000	9,500	500	24.0	12,000
State Total	190,000	55,000	22.0	1,210,000	170,000	50,000	24.0	1,200,000

- Not Applicable.

HAY

Harvested acreage of all types of hay increased by 30,000 acres to 830,000 acres in 1986. Alfalfa acreage increased 4 percent to 470,000 acres, and other hay increased 3 percent to 360,000 acres from last year.

Favprable summer weather increased yields of both alfalfa and other hay resulting in an increase of 11 percent in total production from 1985. Alfalfa hay production increased 12 percent due to a combination of higher acreage and yields. Other hay production increased 7 percent due to higher acreage and yields.

The season average price for hay fell from $84.50 per ton in 1985 to $60.50 per ton in 1986. Total value of production fell 21 percent to $173.9 million.

Alfalfa Hay

Year	Acres Harvested	Yield Per Acre	Production
	1,000 Acres	Tons	1,000 Tons
1977	503	3.50	1,761
1978	503	3.80	1,911
1979	503	3.60	1,811
1980	505	3.70	1,850
1981	500	3.70	1,813
1982	460	4.00	1,840
1983	440	4.00	1,760
1984	475	4.30	2,043
1985	450	3.90	1,755
1986	470	4.20	1,974

Other Hay

Year	Acres Harvested	Yield Per Acre	Production
	1,000 Acres	Tons	1,000 Tons
1977	373	1.80	671
1978	373	1.95	727
1979	350	1.95	683
1980	360	2.10	756
1981	355	1.95	746
1982	340	2.30	782
1983	350	2.50	875
1984	325	2.70	878
1985	350	2.40	840
1986	360	2.50	900

Acreage, Production, Price, and Stocks

Year	Acres Harvested	Yield Per Acre	Production	Season Avg. Price	Stocks	
					Jan. 1	May 1
	1,000 Acres	Tons	1,000 Tons	$/Ton	1,000 Tons	
1977	876	2.78	2,432	53.50	1,751	462
1978	876	3.01	2,638	47.50	1,847	765
1979	853	2.92	2,494	71.00	1,621	424
1980	865	3.03	2,606	82.50	1,720	573
1981	855	2.97	2,559	67.00	1,663	512
1982	800	3.28	2,622	77.00	1,337	262
1983	790	3.34	2,635	78.50	1,528	237
1984	800	3.65	2,921	80.50	1,490	158
1985	800	3.24	2,595	84.50	1,246	182
1986 1/	830	3.46	2,874	60.50	1,868	517

1/ Survey reference date for hay stocks was changed from January 1, 1987 to December 1, 1986.

Hay by County, 1985

County and District	Alfalfa			Other Hay			All Hay		
	Harvested	Yield Per Acre	Production	Harvested	Yield Per Acre	Production	Harvested	Yield Per Acre	Production
	Acres	Tons		Acres	Tons		Acres	Tons	
West									
Clallam	2,900	3.31	9,600	4,700	1.89	8,900	7,600	2.43	18,500
Clark	2,500	3.00	7,500	13,000	2.40	31,200	15,500	2.50	38,700
Cowlitz	400	3.00	1,200	6,000	2.40	14,400	6,400	2.44	15,600
Grays Harbor	100	2.00	200	17,000	2.50	42,500	17,100	2.50	42,700
Island	1,800	2.50	4,500	4,800	1.79	8,600	6,600	1.98	13,100
Jefferson	400	2.50	1,000	2,400	1.79	4,300	2,800	1.89	5,300
King	1,000	3.10	3,100	8,800	2.20	19,400	9,800	2.30	22,500
Kitsap	100	3.00	300	1,100	1.73	1,900	1,200	1.83	2,200
Lewis	1,500	2.73	4,100	27,100	2.00	54,200	28,600	2.04	58,300
Mason	600	2.00	1,200	2,900	2.00	5,800	3,500	2.00	7,000
Pacific	200	3.50	700	5,600	2.30	12,900	5,800	2.34	13,600
Pierce	200	2.50	500	9,900	2.00	19,800	10,100	2.01	20,300
San Juan	100	3.00	300	4,600	1.80	8,300	4,700	1.83	8,600
Skagit	100	3.00	300	23,600	2.50	59,000	23,700	2.50	59,300
Skamania	200	2.50	500	500	2.00	1,000	700	2.14	1,500
Snohomish	500	3.80	1,900	17,900	2.40	43,000	18,400	2.44	44,900
Thurston	-	-	-	13,700	1.70	23,300	13,700	1.70	23,300
Wahkiakum	100	2.00	200	3,100	2.00	6,200	3,200	2.00	6,400
Whatcom	2,000	5.00	10,000	49,000	3.00	147,000	51,000	3.08	157,000
Total	14,700	3.20	47,100	215,700	2.37	511,700	230,400	2.43	558,800
Central									
Benton	17,300	5.10	88,200	1,400	2.50	3,500	18,700	4.90	91,700
Chelan	3,300	2.52	8,300	1,000	1.70	1,700	4,300	2.33	10,000
Kittitas	11,000	4.30	47,300	20,500	3.50	71,800	31,500	3.78	119,100
Klickitat	33,000	4.60	151,800	5,500	2.00	11,000	38,500	4.23	162,800
Okanogan	26,000	2.60	67,600	8,700	1.80	15,700	34,700	2.40	83,300
Yakima	30,000	4.70	141,000	6,300	2.79	17,600	36,300	4.37	158,600
Total	120,600	4.18	504,200	43,400	2.79	121,300	164,000	3.81	625,500
Northeast									
Ferry	10,000	2.80	28,000	1,800	1.39	2,500	11,800	2.58	30,500
Pend Oreille	5,000	3.00	15,000	20,800	2.00	41,600	25,800	2.19	56,600
Spokane	49,000	2.70	132,300	26,500	2.50	66,300	75,500	2.63	198,600
Stevens	42,500	2.60	110,500	8,000	1.70	13,600	50,500	2.46	124,100
Total	106,500	2.68	285,800	57,100	2.17	124,000	163,600	2.50	409,800
East Central									
Adams	19,200	5.30	101,800	3,700	3.00	11,100	22,900	4.93	112,900
Douglas	5,000	2.80	14,000	6,000	2.00	12,000	11,000	2.36	26,000
Franklin	52,000	6.10	317,200	600	2.67	1,600	52,600	6.06	318,800
Grant	87,200	3.40	296,500	6,500	2.71	17,600	93,700	3.35	314,100
Lincoln	12,000	3.00	36,000	7,300	2.51	18,300	19,300	2.81	54,300
Total	175,400	4.36	765,500	24,100	2.51	60,600	199,500	4.14	826,100
Southeast									
Asotin	1,400	2.43	3,400	1,000	1.00	1,000	2,400	1.83	4,400
Columbia	1,300	3.69	4,800	700	2.71	1,900	2,000	3.35	6,700
Garfield	1,100	4.09	4,500	1,400	2.00	2,800	2,500	2.92	7,300
Walla Walla	9,000	5.30	47,700	1,600	2.63	4,200	10,600	4.90	51,900
Whitman	20,000	4.60	92,000	5,000	2.50	12,500	25,000	4.18	104,500
Total	32,800	4.65	152,400	9,700	2.31	22,400	42,500	4.11	174,800
State Total	450,000	3.90	1,755,000	350,000	2.40	840,000	800,000	3.24	2,595,000

Hay by County, 1986

County and District	Alfalfa			Other Hay			All Hay		
	Harvested	Yield Per Acre	Production	Harvested	Yield Per Acre	Production	Harvested	Yield Per Acre	Production
	Acres	Tons		Acres	Tons		Acres	Tons	
West									
Clallam	2,900	4.14	12,000	4,700	2.32	10,900	7,600	3.01	22,900
Clark	2,500	3.20	8,000	13,000	2.54	33,000	15,500	2.65	41,000
Cowlitz	200	3.00	600	6,000	2.83	17,000	6,200	2.84	17,600
Grays Harbor	100	4.00	400	17,500	3.03	53,000	17,600	3.03	53,400
Island	1,800	2.78	5,000	4,800	1.88	9,000	6,600	2.12	14,000
Jefferson	100	4.00	400	3,000	1.67	5,000	3,100	1.74	5,400
King	100	3.00	300	9,700	2.27	22,000	9,800	2.28	22,300
Kitsap				1,500	2.00	3,000	1,500	2.00	3,000
Lewis	2,000	3.15	6,300	27,600	2.00	55,200	29,600	2.08	61,500
Mason	600	2.00	1,200	2,900	2.00	5,800	3,500	2.00	7,000
Pacific	200	3.50	700	6,500	2.26	14,700	6,700	2.30	15,400
Pierce	100	3.00	300	9,900	2.00	19,800	10,000	2.01	20,100
San Juan	100	3.00	300	4,600	1.80	8,300	4,700	1.83	8,600
Skagit	200	3.00	600	23,500	2.50	58,700	23,700	2.50	59,300
Skamania	200	2.50	500	500	2.00	1,000	700	2.14	1,500
Snohomish	200	4.00	800	21,000	2.52	53,000	21,200	2.54	53,800
Thurston	200	4.00	800	14,000	2.00	28,000	14,200	2.03	28,800
Wahkiakum	100	2.00	200	3,100	2.00	6,200	3,200	2.00	6,400
Whatcom	2,500	5.00	12,500	49,500	3.00	148,500	52,000	3.10	161,000
Total	14,100	3.61	50,900	223,300	2.47	552,100	237,400	2.54	603,000
Central									
Benton	16,700	5.30	88,500	500	3.00	1,500	17,200	5.23	90,000
Chelan	3,500	2.57	9,000	1,000	2.00	2,000	4,500	2.44	11,000
Kittitas	11,100	5.70	63,300	26,700	3.63	97,000	37,800	4.24	160,300
Klickitat	34,000	4.60	156,400	3,000	2.50	7,500	37,000	4.43	163,900
Okanogan	26,000	4.20	109,200	6,500	2.00	13,000	32,500	3.76	122,200
Yakima	30,900	4.80	148,300	6,500	2.92	19,000	37,400	4.47	167,300
Total	122,200	4.70	574,700	44,200	3.17	140,000	166,400	4.30	714,700
Northeast									
Ferry	11,000	2.73	30,000	3,200	1.56	5,000	14,200	2.46	35,000
Pend Oreille	6,000	3.00	18,000	20,800	2.02	42,000	26,800	2.24	60,000
Spokane	51,000	2.86	146,100	26,500	2.53	67,000	77,500	2.75	213,100
Stevens	43,000	2.70	116,100	10,000	1.70	17,000	53,000	2.51	133,100
Total	111,000	2.79	310,200	60,500	2.17	131,000	171,500	2.57	441,200
East Central									
Adams	19,500	6.20	120,900	3,700	3.51	13,000	23,200	5.77	133,900
Douglas	6,000	3.28	19,700	5,000	2.00	10,000	11,000	2.70	29,700
Franklin	58,500	6.22	364,000	500	2.80	1,400	59,000	6.19	365,400
Grant	91,500	3.65	333,600	3,500	3.00	10,500	95,000	3.62	344,100
Lincoln	12,100	3.17	38,300	7,400	2.73	20,200	19,500	3.00	58,500
Total	187,600	4.67	876,500	20,100	2.74	55,100	207,700	4.49	931,600
Southeast									
Asotin	1,400	2.57	3,600	1,000	1.00	1,000	2,400	1.92	4,600
Columbia	1,500	4.00	6,000	1,600	2.50	4,000	3,100	3.23	10,000
Garfield	1,400	4.00	5,600	1,400	1.50	2,100	2,800	2.75	7,700
Walla Walla	9,800	5.31	52,000	2,900	2.31	6,700	12,700	4.62	58,700
Whitman	21,000	4.50	94,500	5,000	1.60	8,000	26,000	3.94	102,500
Total	35,100	4.61	161,700	11,900	1.83	21,800	47,000	3.90	183,500
State Total	470,000	4.20	1,974,000	360,000	2.50	900,000	830,000	3.46	2,874,000

DRY BEANS

Dry bean production in 1986 was 670,000 cwt., down 6 percent from 1985. Planted and harvested acres for 1986 were down 2,000 acres from the 1985 level. However, yield was up 10 pounds per acre to 2,160 pounds per acre.

The average price received for dry beans by farmers in Washington during 1986 was $18.50 per cwt., up 30 cents from 1985 and the highest average price received in the State since 1981. Even though production was off 6 percent, the value of production only declined 4 percent due to strong average prices during the season.

Dry Beans by County

County	1985				1986			
	Acreage		Yield Per Acre	Production	Acreage		Yield Per Acre	Production
	Planted	Harvested			Planted	Harvested		
	Acres		Lbs.	Cwt.	Acres		Lbs.	Cwt.
Adams	5,500	5,300	2,260	120,000	6,000	5,800	2,280	132,000
Franklin	5,100	4,900	2,160	106,000	3,800	3,600	2,170	78,000
Grant	20,400	19,900	2,130	424,000	17,400	17,000	2,290	390,000
Other Co.	3,000	2,900	2,070	60,000	4,800	4,600	1,520	70,000
Total	34,000	33,000	2,150	710,000	32,000	31,000	2,160	670,000

Acreage, Production, Price, and Value

Year	Acreage		Yield Per Acre	Production	Season Avg. Price	Value of Production
	Planted	Harvested				
	Acres		Lbs.	Cwt.	$/Cwt.	1,000 Dollars
1977	20,000	19,000	1,750	333,000	19.90	6,627
1978	32,000	31,000	1,700	527,000	17.60	9,275
1979	41,000	40,000	2,000	800,000	24.00	19,200
1980	55,000	54,000	2,000	1,080,000	27.50	29,700
1981	70,000	69,000	2,000	1,380,000	18.50	25,530
1982	38,000	37,000	2,070	766,000	13.50	10,341
1983	16,000	16,000	2,220	355,000	18.30	6,497
1984	35,000	34,000	2,080	707,000	17.80	12,585
1985	34,000	33,000	2,150	710,000	18.20	12,922
1986	32,000	31,000	2,160	670,000	18.50	12,395

Dry Bean Varieties

Small Red

Year	Acres Harvested	Yield Per Acre	Production
	Acres	Lbs.	Cwt.
1977	6,600	1,760	116,000
1978	8,500	1,800	153,000
1979	14,000	2,140	300,000
1980	16,100	2,300	370,000
1981	18,900	2,100	396,000
1982	14,500	2,030	294,000
1983	7,200	2,150	155,000
1984	8,000	2,100	168,000
1985	12,700	2,250	286,000
1986	12,900	2,360	304,000

Pinto

Year	Acres Harvested	Yield Per Acre	Production
	Acres	Lbs.	Cwt.
1977	5,200	1,750	91,000
1978	16,900	1,530	259,000
1979	16,200	1,890	306,000
1980	26,800	1,800	498,000
1981	31,700	2,030	643,000
1982	12,600	2,030	256,000
1983	3,400	2,290	78,000
1984	10,200	2,140	214,000
1985	9,200	2,160	199,000
1986	8,400	2,190	184,000

Small White

Year	Acres Harvested	Yield Per Acre	Production
	Acres	Lbs.	Cwt.
1977	4,800	1,650	79,000
1978	2,400	1,960	47,000
1979	6,800	1,840	125,000
1980	5,700	1,750	100,000
1981	8,300	1,950	162,000
1982	6,400	2,290	147,000
1983	4,000	2,330	93,000
1984	12,000	2,000	240,000
1985	8,900	2,020	180,000
1986	3,900	2,210	86,000

Pink

Year	Acres Harvested	Yield Per Acre	Production
	Acres	Lbs.	Cwt.
1977	1,900	1,950	37,000
1978	2,300	2,300	53,000
1979	1,900	2,740	52,000
1980	5,200	2,080	108,000
1981	10,000	1,770	177,000
1982	3,200	1,960	63,000
1983	1,100	2,000	22,000
1984	2,500	2,080	52,000
1985	1,600	2,000	32,000
1986	2,400	2,080	50,000

POTATOES

Both planted and harvested acreage of potatoes in Washington fell 8,000 acres from the 1985 record high levels of 127,000 and 126,000 acres, respectively. Yet, average potato yields for the State rose 20 cwt. per acre to 525 cwt. per acre, the second highest average yield in Washington on record. Once again, Washington lead the Nation with the highest average yield as well.

Even though acreage was significantly less than the previous year, excellent yield levels provided the State with its second largest crop on record at 61.95 million cwt. The 1986 crop was 3 percent less than the record high in 1985, but 9 percent above 1984's production.

Prices in 1986 were relatively strong, with the preliminary season average price at $4.30, up 85 cents per cwt. from 1985. Thus, the 1986 value of production rose 21 percent to $266 million, but was still 10 percent less than the record high $293 million set in 1984 when season average prices were $5.15 per cwt.

Acreage, Production, Price, and Value

Crop Year	Acreage		Yield Per Harvested Acre	Production	Season Average Price	Value of Production
	Planted	Harvested				
	Acres		Cwt.	1,000 Cwt.	$/Cwt.	1,000 Dol.
1967	43,000	43,000	355	15,265	1.44	21,982
1968	41,500	41,500	390	16,185	1.72	27,838
1969	51,000	51,000	430	21,930	1.55	33,992
1970	61,000	61,000	410	25,010	1.51	37,765
1971	58,000	58,000	395	22,910	1.40	32,074
1972	75,000	75,000	418	31,365	2.09	65,553
1973	84,000	82,000	430	35,260	2.90	102,254
1974	100,000	98,000	420	41,160	3.65	150,234
1975	107,000	105,000	460	48,300	3.15	152,145
1976	124,000	124,000	450	55,800	2.50	139,500
1977	110,000	110,000	460	50,600	2.80	141,680
1978	111,000	111,000	455	50,505	2.45	123,737
1979	102,000	102,000	475	48,450	2.55	123,548
1980	87,000	87,000	505	43,935	4.40	193,314
1981	108,000	108,000	490	52,920	3.95	209,034
1982	110,000	110,000	480	52,800	3.75	198,000
1983	104,000	104,000	520	54,080	4.25	229,840
1984	116,000	115,000	495	56,925	5.15	293,164
1985	127,000	126,000	505	63,630	3.45	219,524
1986	119,000	118,000	525	61,950	4.30	266,385

Potatoes Used for Processing 1/

Area and Storage Season	Accumulated as of: Dec. 1	Jan. 1	Feb. 1	Mar. 1	Apr. 1	May 1	Entire Season
	1,000 Cwt.						
Washington and Other Area, Oregon							
1984-85	20,745	24,690	29,345	33,560	38,815	43,380	51,670
1985-86	21,725	25,665	29,450	34,450	39,990	45,110	57,430
1986-87	21,530	25,510	28,530	33,595	39,610	44,865	56,910
Maine 2/							
1984-85	1,820	2,410	3,015	3,520	4,330	5,185	6,830
1985-86	2,215	2,935	3,845	4,630	5,540	6,280	8,660
1986-87	2,120	2,835	3,345	3,865	4,500	5,195	6,995
Idaho & Malheur Co. Oregon							
1984-85	19,000	24,310	29,200	34,010	39,510	44,650	57,410
1985-86	17,830	22,980	26,660	32,170	37,910	43,240	55,220
1986-87	13,200	17,980	21,910	27,070	33,360	38,970	55,470
Other States 3/							
1984-85	5,695	7,510	9,210	10,930	12,745	14,715	21,005
1985-86	6,470	7,990	9,900	12,020	13,860	16,095	22,245
1986-87	6,240	8,405	10,330	12,320	14,690	16,750	20,975
Eight State Total							
1984-85	47,260	58,920	70,770	82,020	95,400	107,930	136,915
1985-86	48,240	59,570	69,855	83,270	97,300	110,725	143,555
1986-87	43,070	54,730	64,115	76,850	92,160	105,780	140,350

1/ Total quantity received and used for processing, regardless of the state in which the potatoes were produced.
2/ Includes Maine grown potatoes only.
3/ Michigan, Minnesota, North Dakota, and Wisconsin.

Fall Potato Production and Stocks

State and Crop Year	Production	Stocks Dec. 1	Jan. 1*	Feb. 1*	Mar. 1*	Apr. 1*	May 1*
	1,000 Cwt.						
Idaho							
1984	86,600	61,500	54,500	47,500	41,500	34,000	22,500
1985	102,515	74,500	65,000	56,500	46,000	35,000	22,500
1986	90,220	70,500	63,000	57,000	50,000	40,000	27,500
Oregon							
1984	23,525	15,400	12,900	11,000	8,700	6,400	4,500
1985	26,888	18,500	15,700	13,300	10,500	8,000	5,800
1986	23,172	17,000	14,900	12,700	10,100	7,800	5,800
Washington							
1984	56,925	29,600	25,900	20,800	16,600	11,300	7,000
1985	63,630	33,500	30,000	25,700	21,000	16,200	9,700
1986	61,950	32,300	28,000	24,400	20,400	14,600	8,700
Total 15 Major States							
1984	303,384	201,410	173,380	144,760	118,400	86,440	52,465
1985	343,984	235,475	202,800	171,510	138,720	104,540	65,380
1986	307,501	209,280	180,800	154,490	128,700	95,090	59,790

* Calendar year following year of production.

Potatoes by County

County and District	1985 Acreage Planted	1985 Acreage Harvested	1985 Yield Per Acre	1985 Production	1986 Acreage Planted	1986 Acreage Harvested	1986 Yield Per Acre	1986 Production
	Acres		Cwt.	1,000 Cwt.	Acres		Cwt.	1,000 Cwt.
West								
Clark	400	350	320	112	400	400	330	132
Grays Harbor	250	250	200	50	200	200	250	50
Pierce	100	100	200	20	100	100	200	20
Skagit	2,700	2,600	320	832	3,100	3,000	385	1,155
Whatcom	1,900	1,800	260	468	1,400	1,300	280	364
Other Counties	550	500	430	215	400	400	280	112
Total	5,900	5,600	303	1,697	5,600	5,400	339	1,833
Central								
Benton	22,500	22,300	520	11,596	22,300	22,200	550	12,210
Kittitas	1,200	1,200	320	384	1,000	1,000	380	380
Klickitat	1,100	1,100	280	308	1,100	1,100	280	308
Yakima	1,800	1,800	375	675	1,300	1,300	310	403
Other Counties	100	100	300	30	100	100	300	30
Total	26,700	26,500	490	12,993	25,800	25,700	519	13,331
Northeast								
Spokane	300	300	300	90	300	300	330	99
Stevens	200	200	320	64	200	200	300	60
Total	500	500	308	154	500	500	318	159
East Central								
Adams	20,100	20,000	520	10,400	16,900	16,800	490	8,232
Franklin	31,400	31,200	525	16,380	29,100	28,900	555	16,040
Grant	36,400	36,200	525	19,005	33,800	33,500	550	18,425
Other Counties	200	200	505	101	300	300	450	135
Total	88,100	87,600	524	45,886	80,100	79,500	539	42,832
Southeast								
Walla Walla	5,800	5,800	500	2,900	7,000	6,900	550	3,795
Total	5,800	5,800	500	2,900	7,000	6,900	550	3,795
State Total	127,000	126,000	505	63,630	119,000	118,000	525	61,950

MINT

Washington continues to be the leader in spearmint oil production in the United States. Growers produced 1.9 million pounds of spearmint oil in 1986, accounting for 70 percent of the U.S. total. Production increased 16 percent despite a decrease of 1,000 acres harvested in 1986 compared with 1985. Average yield increased to 143 pounds per acre in 1986, 50 pounds above the national average. The average price for Native Spearmint was lower for 1986, while Scotch prices held steady.

Peppermint growers in Washington had the highest average yield in the U.S. at 89.0 pounds per acre, 22 pounds above the national average. Season average price continued to fall in 1986 to $7.90 per pound, down $0.40 from 1985 and down $2.20 from 1984.

Washington ranks second in the U.S., behind Oregon, in peppermint oil production. Washington and Oregon, combined, produced 77 percent of the nation's peppermint oil in 1986.

Native Spearmint
Acreage, Production, and Price 1/

Year	Acres Harvested	Yield Per Acre	Production	Season Avg. Price
	Acres	Pounds	1,000 Pounds	Dollars/ Pound
1978	14,600	92	1,340	5.40
1979	9,200	83	764	9.00
1980	11,800	107	1,258	8.50
1981	9,300	135	1,253	7.10
1982	3,400	128	435	9.00
1983	5,000	103	515	9.40
1984	6,800	115	784	10.00
1985	9,000	125	1,125	9.50
1986	8,000	156	1,244	8.00

Peppermint
Acreage, Production, and Price 1/

Year	Acres Harvested	Yield Per Acre	Production	Season Avg. Price
	Acres	Pounds	1,000 Pounds	Dollars/ Pound
1977	12,800	62	794	13.60
1978	16,800	67	1,126	9.90
1979	14,000	60	840	9.10
1980	11,600	69	800	8.50
1981	8,300	78	647	8.50
1982	8,900	80	712	8.20
1983	9,500	80	760	9.40
1984	12,400	84	1,042	10.10
1985	13,200	87	1,148	8.30
1986	10,900	89	970	7.90

Scotch Spearmint
Acreage, Production, and Price 1/

Year	Acres Harvested	Yield Per Acre	Production	Season Avg. Price
	Acres	Pounds	1,000 Pounds	Dollars/ Pound
1978	11,800	90	1,062	8.40
1979	6,800	62	420	8.10
1980	4,200	59	246	9.90
1981	3,500	59	206	11.50
1982	3,500	69	241	14.70
1983	4,400	90	397	14.70
1984	4,500	104	470	14.50
1985	5,000	96	480	14.00
1986	5,000	123	615	14.00

1/ 1978 first year separate estimates were made.

All Spearmint by County, 1985

County	Acres Harvested	Yield Per Acre	Production
	Acres	Pounds	1,000 Pounds
Central			
Benton	2,700	103.3	279
Yakima	9,400	118.4	1,113
Total	12,100	115.0	1,392
East Central			
Adams	1,100	106.4	117
Grant	800	120.0	96
Total	1,900	112.1	213
State Total	14,000	115.0	1,605

All Spearmint by County, 1986

County	Acres Harvested	Yield Per Acre	Production
	Acres	Pounds	1,000 Pounds
Central			
Benton	2,000	120.0	240
Yakima	9,000	150.0	1,350
Total	11,000	144.5	1,590
East Central			
Adams	900	127.8	115
Grant	1,100	140.0	154
Total	2,000	134.5	269
State Total	13,000	143.0	1,859

Peppermint by County, 1985

County	Acres Harvested	Yield Per Acre	Production
	Acres	Pounds	Pounds
West			
Clark	400	61.0	24,400
Total	400	61.0	24,400
Central			
Benton	700	90.0	63,000
Franklin	300	82.0	24,600
Yakima	8,500	88.0	748,000
Total	9,500	88.0	835,600
East Central			
Adams	900	80.0	72,000
Grant	2,400	90.0	216,000
Total	3,300	87.0	288,000
State Total	13,200	87.0	1,148,000

Peppermint by County, 1986

County	Acres Harvested	Yield Per Acre	Production
	Acres	Pounds	Pounds
West			
Clark	200	75.0	15,000
Total	200	75.0	15,000
Central			
Benton	500	86.0	43,000
Franklin	200	85.0	17,000
Yakima	6,200	90.0	558,000
Total	6,900	89.6	618,000
East Central			
Adams	800	80.0	64,000
Grant	3,000	91.0	273,000
Total	3,800	88.7	337,000
State Total	10,900	89.0	970,000

Native Spearmint by County, 1985

County	Acres Harvested	Yield Per Acre	Production
	Acres	Pounds	1,000 Pounds
Central			
Benton	800	123.8	99
Yakima	7,000	125.6	879
Total	7,800	125.4	978
East Central			
Adams	600	118.3	71
Grant	600	126.7	76
Total	1,200	122.5	147
State Total	9,000	125.0	1,125

Native Spearmint by County, 1986

County	Acres Harvested	Yield Per Acre	Production
	Acres	Pounds	1,000 Pounds
Central			
Benton	500	132.0	66
Yakima	6,500	158.9	1,033
Total	7,000	157.0	1,099
East Central			
Adams	500	140.0	70
Grant	500	150.0	75
Total	1,000	145.0	145
State Total	8,000	156.0	1,244

Scotch Spearmint by County, 1985

County	Acres Harvested	Yield Per Acre	Production
	Acres	Pounds	1,000 Pounds
Central			
Benton	1,900	94.7	180
Yakima	2,400	97.5	234
Total	4,300	96.3	414
East Central			
Adams	500	92.0	46
Grant	200	100.0	20
Total	700	94.3	66
State Total	5,000	96.0	480

Scotch Spearmint by County, 1986

County	Acres Harvested	Yield Per Acre	Production
	Acres	Pounds	1,000 Pounds
Central			
Benton	1,500	116.0	174
Yakima	2,500	126.8	317
Total	4,000	122.8	491
East Central			
Adams	400	112.5	45
Grant	600	131.7	79
Total	1,000	124.0	124
State Total	5,000	123.0	615

HOPS

Acreage, Production, and Price

Year	Washington				United States			
	Acres Harvested	Yield Per Acre	Production	Season Avg. Price	Acres Harvested	Yield Per Acre	Production	Season Avg. Price
	1,000	Pounds	1,000 Pounds	Cents/ Lb.	1,000	Pounds	1,000 Pounds	Cents/ Lb.
1977	20.6	1,840	37,904	85.8	30.5	1,796	54,777	89.6
1978	21.3	1,880	40,044	87.0	30.9	1,782	55,071	90.1
1979	22.3	1,800	40,140	95.8	31.8	1,727	54,929	97.6
1980	26.9	2,080	55,952	154.0	37.1	2,037	75,560	151.0
1981	31.3	1,900	59,470	150.0	43.1	1,836	79,140	151.0
1982	28.1	2,070	58,167	160.0	39.6	1,984	78,558	175.0
1983	26.5	1,930	51,145	180.0	36.9	1,846	68,111	193.0
1984	22.7	1,920	43,584	199.0	30.8	1,824	56,167	210.0
1985 1/	19.5	1,870	36,465	181.0	28.1	1,769	49,713	198.0
1986 1/	17.4	2,040	35,496	162.0	25.0	1,958	48,962	174.0

1/ California data is combined with Washington's to avoid disclosure of individual operations.

Hops Lost by Fire

Area	1981	1982	1983	1984	1985
	1,000 Pounds				
Washington	90	5	20	10	40
United States	90	5	1,020	10	40

Hop Stocks

Year	March 1				September 1			
	Stocks Held By 1/			Total Stocks	Stocks Held By 1/			Total Stocks
	Growers 2/	Dealers	Brewers		Growers 2/	Dealers	Brewers	
	1,000 Lbs.							
1976	680	8,570	62,130	71,380	390	1,960	48,050	50,400
1977	380	11,420	63,500	75,300	380	1,580	48,520	50,480
1978	680	10,400	63,470	74,550	380	1,730	45,430	47,540
1979	380	12,120	53,960	66,460	0	3,020	35,270	38,290
1980	0	14,700	47,300	62,000	0	1,380	31,420	32,800
1981	250	16,360	50,410	67,020	240	1,950	32,240	34,430
1982	1,400	16,000	54,290	71,690	1,200	2,090	43,740	47,030
1983	1,600	16,670	62,050	80,320	1,380	3,000	56,700	61,080
1984	1,360	19,530	79,440	100,330	1,360	6,256	60,480	68,096
1985	1,660	15,196	72,949	89,805	1,400	10,930	58,130	70,460
1986	1,960	15,720	72,240	89,920	1,390	8,930	60,630	70,950
1987	1,670	13,970	72,860	88,500	1,620	6,580	62,430	70,630

1/ Includes equilavent pounds of dry hops held in form of extract or pellets.
2/ Includes growers' stocks held in extract form.

SEED CROPS

Harvested acreage of red clover increased slightly from the 1985 harvested acreage. Kentucky bluegrass and alfalfa harvested acreages declined significantly in 1986.

Red clover yields remained steady, while Kentucky bluegrass yields showed an increase, even though some areas in the State experienced hot and dry weather during the growing season. Alfalfa seed yields tended to be slightly lower due to lygus bug infestations in some areas of the State.

Most growers saw an increase in prices received during 1986. The average price of Kentucky bluegrass exhibited a new record price, while the prices received for alfalfa and red clover seed were up slightly from 1985 prices. Alfalfa seed prices received continued to stay behind those present in the 1978-1981 period.

Acreage, Production, Price, and Value

Crop and Year	Acreage Harvested	Yield Per Acre	Production	Average Price	Value of Production
	Acres	Cwt.	Cwt.	Dollars	1,000 Dollars
Alfalfa					
1979	33,000	2.50	82,500	125.00	10,313
1980	21,000	3.65	76,650	118.00	9,045
1981	16,000	6.10	97,600	110.00	10,736
1985	21,000	6.70	140,700	100.40	14,127
1986	18,000	5.80	104,330	101.00	10,537
Red Clover					
1979	8,500	3.10	26,350	76.00	2,003
1980	5,700	3.00	17,100	84.50	1,445
1981	2,200	4.70	10,340	103.00	1,065
1985	3,000	4.60	13,800	96.90	1,337
1986	3,200	4.60	14,720	101.00	1,487
Kentucky Bluegrass					
1979	24,900	3.95	98,370	76.75	7,550
1980	29,200	6.26	182,660	52.44	9,578
1981	29,900	6.40	191,230	48.65	9,303
1985	34,000	2.40	81,600	102.40	8,356
1986	24,400	4.40	107,360	124.00	13,407
Other Grass 1/					
1979	1,400	-	956	-	561
1980	900	-	594	-	341
1981	400	-	232	-	121
1985	4,300	-	14,200	-	1,375
1986	1,150		5,525		436
State Total					
1979	67,800	-	208,176	-	20,427
1980	56,800	-	277,004	-	20,409
1981	48,500	-	299,402	-	21,225
1985	62,300	-	250,300	-	25,195
1986	46,750		231,935		25,867

1/ Includes only turfgrass seeds for 1978-1981.
- Not Available.

Alfalfa Seed
by Ccunty, 1985

County	Harvested Acreage	Yield Per Acre	Production
	Acres	Cwt.	Cwt.
Adams	1,000	6.5	6,500
Franklin	1,500	6.6	9,900
Grant	4,000	7.5	30,000
Walla Walla	14,000	6.6	92,400
Yakima	300	4.0	1,200
Other Co.	200	3.5	700
State Total	21,000	6.7	140,700

Alfalfa Seed
by County, 1986

County	Harvested Acreage	Yield Per Acre	Production
	Acres	Cwt.	Cwt.
Adams	1,000	6.5	6,500
Franklin	1,500	6.6	9,900
Grant	3,000	5.0	15,000
Walla Walla	12,000	5.9	70,800
Yakima	300	4.1	1,230
Other Co.	200	4.5	900
State Total	18,000	5.8	104,330

Kentucky Bluegrass Seed
by County, 1985

County	Harvested Acreage	Yield Per Acre	Production
	Acres	Cwt.	Cwt.
Asotin	500	3.1	1,550
Columbia	300	2.9	870
Garfield	3,200	2.2	7,040
Spokane	23,000	2.4	55,200
Walla Walla	1,100	2.0	2,200
Whitman	5,600	2.3	12,880
Other Co.	300	6.2	1,860
State Total	34,000	2.4	81,600

Kentucky Bluegrass Seed
by County, 1986

County	Harvested Acreage	Yield Per Acre	Production
	Acres	Cwt.	Cwt.
Asotin	400	3.5	1,400
Columbia	700	5.0	3,500
Garfield	3,900	3.5	13,650
Spokane	15,100	4.7	70,970
Walla Walla	700	2.0	1,400
Whitman	3,200	4.9	15,680
Other Co.	400	1.6	760
State Total	24,400	4.4	107,360

Red Clover Seed by County, 1985

County	Harvested Acreage	Yield Per Acre	Production
	Acres	Cwt.	Cwt.
Adams	100	2.7	270
Clark	200	4.3	860
Franklin	400	5.6	2,240
Grant	900	4.3	3,870
Spokane	600	4.8	2,880
Other Co.	800	4.6	3,680
State Total	3,000	4.6	13,800

Red Clover Seed by County, 1986

County	Harvested Acreage	Yield Per Acre	Production
	Acres	Cwt.	Cwt.
Adams	100	5.4	540
Clark	500	3.0	1,500
Franklin	750	5.6	4,200
Grant	1,000	5.5	5,500
Spokane	350	2.8	980
Other Co.	500	4.0	2,000
State Total	3,200	4.6	14,720

Other Grass Seed by County, 1985

County	Harvested Acreage	Yield Per Acre	Production
	Acres	Cwt.	Cwt.
Adams	100	4.8	480
Garfield	1,050	4.2	4,410
Spokane	2,700	3.0	8,100
Whitman	200	1.8	360
Other Co.	250	3.4	850
State Total	4,300	3.3	14,200

Other Grass Seed by County, 1986

County	Harvested Acreage	Yield Per Acre	Production
	Acres	Cwt.	Cwt.
Garfield	250	4.5	1,125
Spokane	400	4.5	1,800
Other Co.	500	5.2	2,600
State Total	1,150	4.8	5,525

Rapeseed

Washington harvested 14,000 acres of rapeseed during 1986 with an average yield of 1,700 pounds per acre. Total production was 23.8 million pounds valued at $1,785,000. Edible rapeseed accounted for 79 percent of the 1986 production and industrial rapeseed accounted for 21 percent.

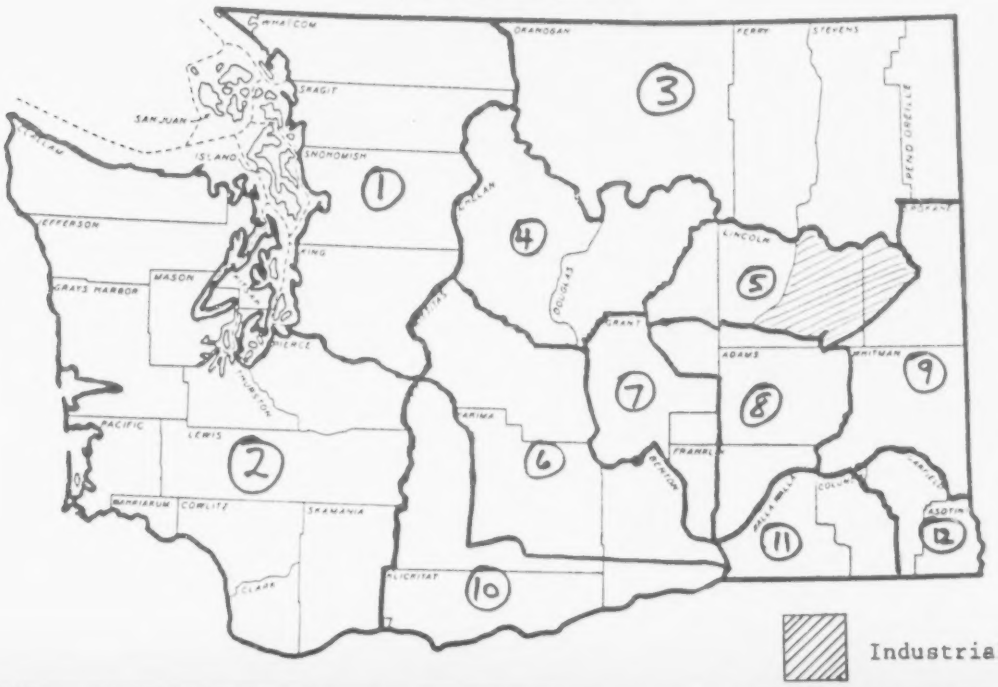
Rapeseed is a relatively new crop in Washington. Estimates for Washington were initiated in 1986. As illustrated by the information in the table below, most of Washington's rapeseed is the edible type, low erucic acid varieties suitable for producing cooking oil, salad dressing, margarine, and other food products. The industrial types are high in erucic acid and are used to manufacture paints, soap, plastics, and other industrial products.

Edible and industrial types of rapeseed cannot be grown close together due to a chance of cross-pollination with each other or with other vegetable seed crops. Therefore, rapeseed districts were formed. There are currently 10 active districts (area 1 and 2 not designated) and only the eastern half of district 5 is designated industrial.

Acreage, Production, Price, and Value

1986 Crop	Acres		Yield	Production	Price	Value of Production	1987 Planted Acres
	Planted	Harvested					
			Pounds	1,000 Pounds	Per Pound	$1,000	
Washington							
Edible	12,000	11,000	1,710	18,820	.075	1,412	16,000
Inedible	3,000	3,000	1,660	23,800	.075	373	4,000
Total	15,000	14,000	1,700	42,620	.075	1,785	20,000

Rapeseed Districts



FRUIT

General Information

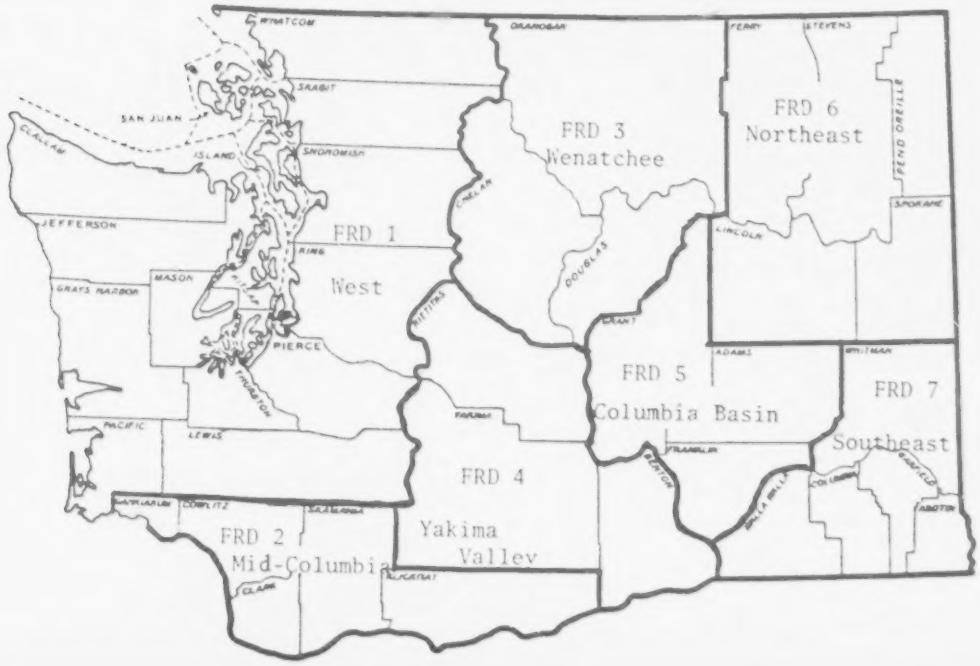
Washington is the third most important state in the United States in fruit production - second in the nation in the production of deciduous fruits (non-citrus varieties). There are two major fruit producing areas located in central Washington - one in the south-central portion including the Yakima Valley, and the other embracing the Wenatchee-Okanogan area in the north-central portion. However, the Columbia Basin district is gaining in importance as new plantings come into production.

The fall and winter season prior to the spring of 1986 was one of the coldest on record in the Yakima Valley. For example, the mean temperature for November 1985 was 23 degrees - over 15 degrees below normal. This was followed by the coldest December ever recorded, which was 12 degrees below normal at an average of 19 degrees. January and February warmed to average temperatures only 2 degrees and 1 degree below normal, respectively. Fortunately, the early fall, September and October, was also well below normal. This averted serious bud and tree damage since the trees had a good chance to move into dormancy prior to the extreme cold. A spell of warm weather occurred during late February through March which advanced bud development more rapidly than normal. This was followed by cool weather after April 10, and on Memorial Day that slowed development somewhat, but fruit crops still remained ahead of normal.

Washington is still the number one producer of apples, sweet cherries, and winter pears. Other commodities, such as bartlett pears and apricots, are among the second place rankings for the nation. The State's orchardists produced a record crop of apples and winter pears during 1986 while prune producers had the smallest amount on record. Many fruits such as apples, apricots, bartlett pears, and winter pears established record values of production for the 1986 crop.

Value of fruit produced in Washington totaled a record $680 million, 39 percent above last year and 36 percent more than the previous record set in 1983.

Fruit Reporting Districts (FRD)



FRUIT AND NUT CROPS

Utilized Production, Price, and Value, Washington

Crop and Year	Bearing Acreage	Yield Per Acre	Total Production	Utilized Production	Average Price	Value of Utilized Production 1/
	Acres	Tons	Tons	Tons	$/Ton	1,000 Dollars
Apples						
1982	95,000	13.75	1,307,500	1,307,500	194.00	252,895
1983	102,000	15.00	1,527,500	1,527,500	228.00	348,790
1984	105,000	14.05	1,475,000	1,475,000	222.00	326,220
1985	112,000	9.15	1,025,000	1,025,000	340.00	348,740
1986	126,000	12.30	1,550,000	1,550,000	316.00	489,280
Apricots						
1982	600	5.00	3,000	2,900	531.00	1,540
1983	600	4.83	2,900	2,900	604.00	1,751
1984	650	5.23	3,400	3,400	490.00	1,665
1985	700	3.43	2,400	2,400	628.00	1,508
1986	750	5.73	4,300	4,300	772.00	3,319
Sweet Cherries						
1982	11,200	5.89	66,000	50,800	746.00	37,888
1983	11,200	7.95	89,000	80,900	689.00	55,709
1984	10,900	6.24	68,000	55,800	729.00	40,654
1985	11,300	3.35	37,900	35,300	1,035.00	36,527
1986	11,900	5.25	62,500	62,500	951.00	59,437
Tart Cherries						
1982	-	-	-	730	422.00	308
1983	-	-	-	900	749.00	674
1984	-	-	-	690	964.00	665
1985	-	-	-	650	855.00	556
1986	-	-	-	900	631.00	568
Bartlett Pears						
1982	11,100	12.70	141,300	141,300	154.00	21,736
1983	10,900	12.90	140,800	140,800	180.00	25,325
1984	10,900	9.27	101,000	101,000	218.00	21,996
1985	11,300	9.82	111,000	111,000	248.00	27,484
1986	11,700	10.80	126,000	126,000	225.00	28,352
Other Pears						
1982	9,200	13.40	123,500	123,500	245.00	30,269
1983	9,400	14.70	138,000	138,000	171.00	23,648
1984	9,400	11.00	103,000	103,000	325.00	33,432
1985	9,600	11.90	114,000	114,000	365.00	41,642
1986	10,000	14.00	140,000	140,000	317.00	44,402

- Not available.

Utilized Production, Price, and Value, Washington (continued)

Crop and Year	Bearing Acreage	Yield Per Acre	Total Production	Utilized Production	Average Price	Value of Utilized Production 1/
	Acres	Tons	Tons	Tons	$/Ton	1,000 Dollars
Peaches						
1982	2,400	5.65	13,500	13,500	446.00	6,021
1983	2,400	6.04	14,500	14,500	430.00	6,244
1984	2,400	7.90	19,000	19,000	486.00	9,239
1985	2,300	6.75	15,500	15,500	476.00	7,365
1986	2,400	7.90	19,000	19,000	462.00	8,760
Prunes						
1982	1,500	7.67	11,500	11,500	300.00	3,454
1983	1,500	9.80	14,700	14,700	161.00	2,374
1984	1,400	12.90	18,000	18,000	151.00	2,716
1985	1,400	7.29	10,200	10,200	220.00	2,240
1986	1,400	6.50	9,100	9,100	366.00	3,329
Grapes						
1982	24,100	7.01	168,900	168,900	185.00	31,299
1983	25,700	8.83	227,000	225,700	152.00	34,252
1984	26,600	6.33	168,500	168,500	124.00	20,853
1985	27,000	4.30	116,100	116,100	178.00	20,642
1986	27,900	5.59	156,000	156,000	238.00	37,120
Filberts						
1982	400	1.00	-	400	677.00	271
1983	400	.50	-	200	720.00	144
1984	400	.50	-	200	875.00	175
1985	400	.75	-	300	957.00	287
1986	400	.50	-	200	895.00	179
Other 2/						
1982	-	-	-	5,500	-	3,270
1983	-	-	-	7,400	-	3,230
1984	-	-	-	6,500	-	3,880
1985	-	-	-	5,400	-	3,030
1986	-	-	-	9,100	-	5,750
State Total						
1982				1,826,530	212.95	388,951
1983				2,153,500	233.17	502,141
1984				1,951,090	236.53	461,495
1985				1,435,850	341.28	490,021
1986				2,077,100	327.62	680,496

1/ Prices based at packinghouse door and processing plant door.
2/ Includes miscellaneous fruits and nuts.
- Not available.

Utilized Production by Area, Washington

Area and Year	Apples	Apricots	Sweet Cherries	Bartlett Pears	Other Pears	Peaches	Prunes
	Tons						
West							
1982	1,100	-	150	20	-	100	20
1983	1,000	-	150	20	-	50	30
1984	1,000	-	130	20	-	40	40
1985	900	-	100	20	-	50	30
1986	800	-	100	20	-	70	20
Mid-Columbia							
1982	3,700	30	1,300	5,000	6,050	200	60
1983	3,500	30	1,200	5,500	6,700	250	80
1984	2,500	30	1,100	2,800	6,400	300	100
1985	2,400	30	800	2,800	6,900	400	80
1986	4,400	60	1,100	4,200	7,000	550	70
Wenatchee							
1982	621,500	1,200	19,800	30,100	84,000	2,600	40
1983	758,000	1,200	29,400	33,900	95,000	3,100	40
1984	630,000	1,600	19,300	14,000	64,000	2,600	30
1985	517,000	1,400	15,500	28,500	87,000	2,000	30
1986	600,000	1,550	17,000	24,400	96,500	2,700	40
Yakima Valley							
1982	596,700	1,450	25,900	105,400	33,000	9,700	10,900
1983	675,000	1,400	45,800	100,600	35,800	10,200	13,700
1984	742,000	1,500	31,500	83,500	32,100	14,900	17,100
1985	388,000	800	15,700	78,800	19,500	11,200	9,100
1986	785,000	2,200	39,000	96,000	35,700	13,000	7,900
Columbia Basin							
1982	80,000	160	3,400	600	350	600	410
1983	85,000	210	4,000	600	400	600	750
1984	95,000	210	3,500	500	400	860	670
1985	110,000	120	3,000	700	550	1,600	900
1986	150,000	400	5,000	1,240	750	2,500	1,000
Northeast							
1982	3,000	30	200	60	100	150	20
1983	4,000	30	300	40	100	150	30
1984	2,700	30	250	20	100	150	20
1985	3,200	30	180	20	50	150	20
1986	4,000	60	200	40	50	180	20
Southeast							
1982	1,500	30	50	120	-	150	50
1983	1,000	30	50	140	-	150	70
1984	1,800	30	20	160	-	150	40
1985	3,500	20	20	160	-	100	40
1986	5,800	30	100	100		100	50
State Total							
1982	1,307,500	2,900	50,800	141,300	123,500	13,500	11,500
1983	1,527,500	2,900	80,900	140,800	138,000	14,500	14,700
1984	1,475,000	3,400	55,800	101,000	103,000	19,000	18,000
1985	1,025,000	2,400	35,300	111,000	114,000	15,500	10,200
1986	1,550,000	4,300	62,500	126,000	140,000	19,100	9,100

- Not applicable.

Harvesting Costs, Washington

Fruit	Picking Costs	Hauling Costs	Other Harvesting Costs	Total Harvest Costs
	Dollars Per Bulk Bin			
Apples				
1982	8.81	2.10	1.99	12.90
1983	8.80	2.15	1.92	12.87
1984	9.29	2.19	2.04	13.52
1985	9.68	2.21	2.01	13.90
1986	9.48	2.23	1.90	13.61
	Dollars Per Ton			
Apricots				
1982	61.00	6.20	5.50	72.70
1983	61.00	6.40	6.20	73.60
1984	63.80	5.20	7.00	76.00
1985	58.00	8.00	10.00	76.00
1986	55.20	6.30	6.50	68.00
Sweet Cherries				
1982	195.73	12.51	16.43	224.67
1983	203.50	12.60	16.90	233.00
1984	204.50	11.00	16.50	232.00
1985	216.00	12.20	17.80	246.00
1986	204.00	12.50	23.50	240.00
Bartlett Pears				
1982	17.19	3.60	3.41	24.20
1983	17.30	3.50	3.60	24.40
1984	15.80	3.60	3.30	22.70
1985	17.70	4.00	3.70	25.40
1986	16.80	3.60	3.50	23.90
Other Pears				
1982	18.35	3.60	3.15	25.10
1983	17.50	3.70	3.70	24.90
1984	16.20	3.70	3.80	23.70
1985	19.30	4.10	4.10	27.50
1986	17.30	3.40	3.30	24.00
Peaches				
1982	34.00	9.00	9.00	52.00
1983	36.00	9.00	9.00	54.00
1984	37.10	10.10	10.50	57.70
1985	39.40	6.40	10.00	55.80
1986	45.50	6.50	9.00	61.00
Prunes				
1982	34.73	4.50	4.20	43.43
1983	35.50	4.80	4.00	44.30
1984	36.40	6.60	6.10	49.10
1985	42.70	7.50	5.20	55.40
1986	43.80	4.40	3.80	52.00

APPLES

The State's apple orchardists produced a record output in 1986 with 3,100 million pounds (73.8 million boxes) which surpassed the 1983 previous high of 3,055 million pounds (72.7 million boxes). Trees came through the winter in good condition despite record cold November temperatures. In the spring, orchardists were busy with frost protection, but only minimal damage occurred in scattered localities. Apples sized extremely well during July as cooler temperatures prevailed. August temperatures were higher than normal and growers became concerned about fruit coloring. But the second week of September brought cooler temperatures and improved fruit color.

Apples became the number one value of production commodity in Washington with $489 million, up from third place in the 1985 rankings. Washington is the leading apple producing state with 39 percent of the national output, compared with 26 percent from the 1985 production.

Production, Value, and Disposition

Year	Production		Average Price Per Lb.	Value of 1/ Utilized Production	Fresh Market		Processing	
	Total	Utilized			Quantity	Price/Lb.	Quantity	Price/Ton
	Million Pounds		Cents	1,000 Dollars	Million Pounds	Cents	Tons	Dollars
1977	2,083	2,083	13.0	270,790	1,599	14.7	484	144
1978	2,148	2,148	12.6	270,648	1,680	13.7	468	170
1979	2,619	2,619	12.7	332,613	1,860	15.5	759	114
1980	3,005	3,005	8.2	247,695	2,250	9.7	755	77
1981	2,760	2,760	10.9	301,530	2,070	13.4	690	70
1982	2,615	2,615	9.7	252,895	2,030	10.7	585	121
1983	3,055	3,055	11.4	348,790	2,255	13.8	800	94
1984	2,950	2,950	11.1	326,220	2,172	13.3	778	96
1985	2,050	2,050	17.0	348,740	1,590	20.4	460	105
1986	3,100	3,100	15.8	489,280	2,440	18.7	660	100

1/ Prices based at packinghouse door and processing plant door.

Processed Apple Utilization

Year	Canned		Juice		Other		Total Quantity 1/
	Quantity	Price/ Ton	Quantity	Price/ Ton	Quantity	Price/ Ton	
	Million Pounds	Dollars	Million Pounds	Dollars	Million Pounds	Dollars	Million Pounds
1977	93	140	257	150	134	135	484
1978	79	164	265	170	124	174	468
1979	100	132	491	108	168	121	759
1980	89	70	505	76	161	84	755
1981	97	87	430	65	163	73	690
1982	80	145	331	112	174	127	585
1983	99	112	440	85	261	102	800
1984	92	117	432	70	254	103	778
1985	80	129	236	78	144	134	460
1986	108	126	334	77	218	122	660

1/ Includes frozen and dried utilization.

Apples: Holdings in Refrigerated Warehouses

Date	Washington			Pacific Region 1/			United States		
	1984-85	1985-86	1986-87	1984-85	1985-86	1986-87	1984-85	1985-86	1986-87
	Million Pounds								
Sept. 30	850	980	1,680	925	1,094	1,776	1,236	1,712	2,350
Oct. 31	2,219	1,602	2,418	2,376	1,789	2,537	4,154	3,668	4,143
Nov. 30	2,018	1,399	2,034	2,145	1,551	2,132	3,809	3,342	3,532
Dec. 31	1,759	1,188	1,744	1,879	1,319	1,822	3,171	2,725	2,892
Jan. 31	1,423	954	1,439	1,509	1,051	1,496	2,464	2,125	2,307
Feb. 28	1,159	747	1,138	1,217	818	1,178	1,858	1,550	1,720
Mar. 31	934	549	836	972	595	859	1,372	1,039	1,174
Apr. 30	676	356	583	696	384	596	910	613	752
May 31	*	*	*	438	221	367	485	267	386
Jun. 30	*	*	*	284	108	200	291	119	204
Jul. 31	*	*	*	130	22	74	132	25	75
Aug. 31	*	*	*	31	6	2	34	8	4

1/ Washington, Oregon, and California.
* Not published.

Refrigerated Space by Type of Warehouse, October 1

Storage	Cooler Space				Freezer Space				Total Space 1/			
	1979	1981	1983	1985	1979	1981	1983	1985	1979	1981	1983	1985
	Million Cubic Feet											
General Storages												
Gross Space	5.8	3.9	3.9	4.5	79	83	93	96	84	87	97	100
Usable Space	4.3	2.7	2.7	3.2	63	67	73	78	68	69	76	81
Apple Storages												
Gross Space	204	223	256	268	-	-	-	-	204	223	256	268
Usable Space	163	179	204	214	-	-	-	-	163	179	204	214
Total Storages												
Gross Space	210	227	260	272	79	83	93	96	289	310	353	368
Usable Space	168	181	207	217	63	67	73	78	231	248	280	295

1/ Total may not add due to rounding.
\- Not applicable.

Cooler Capacity of Apple and Pear Storages, October 1

Storage	Washington				United States			
	1979	1981	1983	1985	1979	1981	1983	1985
	1,000 Boxes				1,000 Boxes			
Apple and Pear Storages								
Controlled Atmosphere	36,286	42,954	55,086	59,384	55,428	63,815	78,506	84,733
Regular Storage	45,419	46,277	46,824	47,639	106,964	103,683	103,193	107,486
Total	81,705	89,231	101,910	107,023	162,392	167,498	181,699	192,219

GRAPES

Grapes from the 1986 crop added a record $37.1 million to Washington's agricultural economy. Neither concords nor wine grapes established a record price, but the combination of both paved the way to the record value of production from the sixth largest crop to be harvested in Washington. Concord producers regained the number one position from New York with 38 percent of the national concord output. Washington's vinifera grape crop soared to a record 28,500 tons during 1986.

White Reisling was again the most dominant variety with 35 percent of the total crushing during 1986. Growers received $460 per ton, $35 less than the 1985 price. The highest price for any variety of wine grapes was $691 per ton for Pinot Noir, but only 350 tons were crushed during 1986.

Prices paid for Washington wine grapes averaged the highest in the nation at $529 per ton for the 1986 crop compared with the national average of $187 per ton. The 1986 crop average price was $44 less than the 1985 crop and $121 below the record price of $650 per ton set in 1982. Washington is the number two producer of premium table wine in the United States.

Washington Wine Grapes by Variety

1985

Variety by Color	Tons Crushed	Dollars Per Ton
White Varieties		
White Riesling	6,400	495
Chardonnay	2,050	768
Chenin Blanc	1,710	631
Semillon	1,070	640
Gewurztraminer	1,040	371
Sauvignon Blanc	870	784
Muscat Canelli	90	778
Others	480	477
Total	13,710	574
Red Varieties		
Cabernet Sauvignon	1,390	651
Merlot	800	616
Pinot Noir	330	656
Others 1/	870	354
Total	3,390	567
State Total	17,100	573

1/ Includes Pink Varieties

1986

Variety by Color	Tons Crushed	Dollars Per Ton
White Varieties		
White Riesling	10,100	460
Chardonnay	3,960	590
Chenin Blanc	3,060	530
Gewurztraminer	2,020	431
Semillon	1,980	594
Sauvignon Blanc	1,550	666
Muscat Canelli	310	625
Others	550	328
Total	23,530	512
Red Varieties		
Cabernet Sauvignon	2,530	670
Merlot	1,070	645
Pinot Noir	350	691
Others 1/	1,020	375
Total	4,970	606
State Total	28,500	529

1/ Includes Pink Varieties

Production, Value, and Disposition 1/

Year	Production		Average Price Per Ton 1/	Value of Utilized Production	Fresh Market		Processing	
	Total	Utilized			Quantity	Price/Ton	Quantity	Price/Ton
	Tons		Dollars	1,000 Dol.	Tons	Dollars	Tons	Dollars
				Concord Grapes 2/				
1977	100,800	100,800	195	19,618	600	273	100,200	195
1978	177,600	177,600	176	31,327	600	258	177,000	176
1979	100,200	100,200	195	19,588	300	308	99,000	195
1980	140,200	140,200	168	23,512	400	269	139,800	167
1981	150,500	150,500	170	25,572	500	289	150,000	170
1982	155,900	155,900	147	22,849	700	500	155,200	145
1983	205,700	204,400	117	23,815	700	395	203,700	115
1984	150,700	150,700	85	12,754	500	377	150,200	84
1985	99,000	99,000	110	10,844	300	484	98,700	108
1986	127,500	127,500	173	22,043	200	200	127,300	173
				Wine Grapes				
1977	4,800	4,800	423	2,030	-	-	4,800	423
1978	9,400	9,400	467	4,390	-	-	9,400	467
1979	2,600	2,600	532	1,383	-	-	2,600	532
1980	4,900	4,900	480	2,352	-	-	4,900	480
1981	8,500	8,500	533	4,350	-	-	8,500	533
1982	13,000	13,000	650	8,450	-	-	13,000	650
1983	21,300	21,300	490	10,437	-	-	21,300	490
1984	17,800	17,800	455	8,099	-	-	17,800	455
1985	17,100	17,100	573	9,798	-	-	17,100	573
1986	28,500	28,500	529	15,077	-	-	28,500	529
				All Grapes				
1977	105,600	105,600	205	21,648	600	273	105,000	205
1978	187,000	187,000	191	35,717	600	258	186,400	191
1979	102,800	102,800	204	20,971	300	308	102,500	204
1980	145,100	145,100	178	25,865	400	269	144,700	178
1981	159,000	159,000	189	30,102	500	289	158,500	189
1982	168,900	168,900	185	31,299	700	500	168,200	184
1983	227,000	225,700	152	34,252	700	395	225,000	151
1984	168,500	168,500	124	20,853	500	377	168,000	123
1985	116,100	116,100	178	20,642	300	484	115,800	177
1986	156,000	156,000	238	37,120	200	200	155,800	238

1/ Prices based at packinghouse door and processing plant door.
2/ Includes minor quantities of American hybrids used primarily for juice. Processing segment is juice utilization.

APRICOTS

Apricot producers received a record price of $772 per ton which added $3.3 million to the agricultural economy, the largest amount that apricots ever contributed. Current year output, at 4,300 tons, was greatly improved over last year's frost damaged crop of 2,400 tons.

Since the late 1960's, production has generally ranged from 2 to 4 thousand tons compared with the high level of 20 thousand tons in the late 1940's.

Production, Value, and Disposition

Year	Production		Average Price Per Ton	Value of 1/ Utilized Production
	Total	Utilized		
	Tons		Dollars	1,000 Dol.
1977	2,600	2,600	342	889
1978	2,700	2,700	279	753
1979	2,500	2,500	346	865
1980	2,500	2,500	386	965
1981	1,300	1,300	593	771
1982	3,000	2,900	527	1,529
1983	2,900	2,900	604	1,751
1984	3,400	3,400	490	1,665
1985	2,400	2,400	628	1,508
1986	4,300	4,300	772	3,319

1/ Prices based at packinghouse door and processing plant door.

PEACHES

Peach production in Washington during 1986 was 38 million pounds, 23 percent higher than last year's output which was reduced by spring frosts. Peaches contributed $8.8 million to the fruit industry compared with the record $9.2 million during 1984. A record 123.1 million pounds was produced in 1947, but during the past two decades, production has generally ranged between 20 to 50 million pounds.

Production, Value, and Disposition

Year	Production		Average Price Per Ton	Value of 1/ Utilized Production
	Total	Utilized		
	Tons		Dollars	1,000 Dol.
1977	20,500	20,500	206	4,223
1978	19,000	19,000	288	5,472
1979	15,500	15,500	322	4,991
1980	15,500	15,500	358	5,549
1981	10,000	10,000	472	4,719
1982	13,500	13,500	446	6,021
1983	14,500	14,500	430	6,244
1984	19,000	19,000	486	9,239
1985	15,500	15,500	476	7,365
1986	19,000	19,000	462	8,760

1/ Prices based at packinghouse door and processing plant door.

SWEET CHERRIES

Sweet cherry producers added a record $59.4 million to the agricultural sector during the 1986 season. Output, at 62,500 tons, was much improved over the 37,900 tons produced in 1985, but is still short of the record 89,000 tons produced in 1983. The 1985 crop was reduced as a result of frost damage. Washington increased its standing as the number one producer of sweet cherries with 45 percent of the national production. This compares with 29 percent of the 1985 national output.

Production, Value, and Disposition

Year	Production		Average Price Per Ton	Value of 1/ Utilized Production	Fresh Market		Processing	
	Total	Utilized			Quantity	Price/Ton	Quantity	Price/Ton
	Tons		Dollars	1,000 Dol.	Tons	Dollars	Tons	Dollars
1977	47,000	47,000	541	25,427	34,800	595	12,200	386
1978	59,300	59,300	792	46,966	39,400	879	19,900	620
1979	67,600	67,600	608	41,101	47,500	670	20,100	463
1980	52,000	48,300	624	30,139	37,200	715	11,100	319
1981	46,400	44,400	934	41,479	31,800	1,134	12,600	430
1982	66,000	50,800	746	37,888	36,100	885	14,700	404
1983	89,000	80,900	689	55,709	63,500	774	17,400	377
1984	68,000	55,800	729	40,654	42,500	868	13,300	283
1985	37,900	35,300	1,035	36,527	20,200	1,430	15,100	506
1986	62,500	62,500	951	59,437	44,100	1,140	18,400	498

1/ Prices based at packinghouse door and processing plant door.

Processed Cherry Utilization

Year	Canned		Brined		Other	
	Quantity	Price/Ton	Quantity	Price/Ton	Quantity	Price/Ton
	Tons	Dollars	Tons	Dollars	Tons	Dollars
1977	3,000	416	3,400	408	5,800	357
1978	2,400	753	12,900	659	4,600	442
1979	3,600	572	12,800	466	3,700	347
1980	2,200	499	5,300	318	3,600	212
1981	1,700	645	7,200	418	3,700	353
1982	2,500	703	7,100	361	5,100	316
1983	2,700	570	7,100	407	7,600	282
1984	1,800	527	5,600	245	5,900	245
1985	3,000	714	7,700	534	4,400	315
1986	2,500	575	12,000	471	3,900	531

BARTLETT PEARS

Bartlett pear producers added a record $28.4 million to the agricultural economy during 1986 from the 126,000 tons produced. In the major producing area of the Yakima Valley, growers attained average production levels, much improved over the 1985 frost damaged output. During 1986, orchardists received $225 per ton which is $23 per ton less than the 1985 record price of $248.

Production, Value, and Disposition

Year	Production		Average Price Per Ton	Value of 1/ Utilized Production	Fresh Market		Processing	
	Total	Utilized			Quantity	Price/Ton	Quantity	Price/Ton
	Tons		Dollars	1,000 Dol.	Tons	Dollars	Tons	Dollars
1977	138,000	138,000	124	17,112	35,000	173	103,000	107
1978	132,000	132,000	205	27,060	39,900	277	92,100	174
1979	153,000	153,000	180	27,540	36,300	230	116,700	165
1980	143,000	143,000	185	26,459	32,900	242	110,100	169
1981	144,500	144,500	147	21,303	42,400	199	102,100	126
1982	141,300	141,300	154	21,736	44,600	199	96,700	133
1983	140,800	140,800	180	25,325	56,400	253	84,400	131
1984	101,000	101,000	218	21,996	24,500	342	76,500	178
1985	111,000	111,000	248	27,484	33,300	389	77,700	187
1986	126,000	126,000	225	28,352	39,500	363	86,500	162

1/ Prices based at packinghouse door and processing plant door.

OTHER PEARS

Washington producers of other pears regained first place nationally for the first time since 1983. Oregon growers held the top spot during 1984 and 1985. The State's production of winter pears was 140,000 tons, while Oregon's output was 122,000 tons during 1986. However, these two states accounted for 97 percent of the nation's winter pears. Value of production, at $44.4 million, was a record amount added to the fruit industry during 1986.

Production, Value, and Disposition

Year	Production		Average Price Per Ton	Value of 1/ Utilized Production
	Total	Utilized		
	Tons		Dollars	1,000 Dol.
1977	86,000	86,000	208	17,888
1978	114,000	114,000	228	25,992
1979	93,000	93,000	269	25,017
1980	113,000	113,000	249	28,112
1981	130,800	130,800	260	34,049
1982	123,500	123,500	245	30,269
1983	138,000	138,000	171	23,648
1984	103,000	103,000	325	33,432
1985	114,000	114,000	365	41,642
1986	140,000	140,000	317	44,402

1/ Prices based at packinghouse door and processing plant door.

PRUNES

Prune producers in Washington during 1986 received a record $366 per ton, which added $3.3 million to the fruit economy. This compares with the record $3.5 million added during the 1982 season. Total production, at 9,100 tons, was the lowest on record since estimates were first made in 1919.

Production, Value, and Disposition

Year	Production		Average Price Per Ton	Value of 1/ Utilized Production	Fresh Market		Processing	
	Total	Utilized			Quantity	Price/Ton	Quantity	Price/Ton
	Tons		Dollars	1,000 Dol.	Tons	Dollars	Tons	Dollars
1977	12,000	12,000	187	2,244	9,600	219	2,400	59.50
1978	21,300	21,300	149	3,174	15,300	172	6,000	89.10
1979	14,700	14,700	192	2,822	12,100	219	2,600	69.10
1980	23,100	23,100	149	3,436	18,000	170	5,100	73.80
1981	14,600	14,600	116	1,688	11,200	133	3,400	58.20
1982	11,500	11,500	300	3,454	10,050	340	1,450	25.30
1983	14,700	14,700	161	2,374	12,100	189	2,600	33.30
1984	18,000	18,000	151	2,716	11,400	189	6,600	85.00
1985	10,200	10,200	220	2,240	7,200	284	3,000	64.90
1986	9,100	9,100	366	3,329	7,400	437	1,700	55.70

1/ Prices based at packinghouse door and processing plant door.

FILBERTS

In 1986, filbert producers harvested 200 tons of filberts with an average price of $895 per ton. After the 1962 Columbus day wind storm, filbert acreage declined to the current 400 acre level which has remained stable during the past decade. Clark County has about half of the State's filbert trees, while the remainder are located between Seattle and the Canadian border.

Production, Value, and Disposition

Year	Utilized Production	Average Price Per Ton	Value of Utilized Production	Production		Meat Production Of Nuts Sold Shelled
				Sold In Shell	Sold Shelled	
	Tons	Dollars	1,000 Dol.	1,000 Pounds		
1977	350	674	236	285	65	52
1978	350	835	292	250	100	80
1979	300	970	291	230	70	60
1980	300	1,181	354	199	101	84
1981	300	770	231	200	100	80
1982	400	677	271	170	230	140
1983	200	720	144	150	50	20
1984	200	875	175	120	80	30
1985	300	957	287	250	50	20
1986	200	895	179	150	50	20

VEGETABLES

Washington vegetable growers experienced seasonably warm spring temperatures until sub-freezing weather occurred in late April and early May. This damaged some of the early growth of asparagus, sweet corn, and onions. Extremely hot temperatures in late May and early June damaged the carrot and asparagus crops. The rest of the growing season was normal, but rain in late September delayed storage onion harvest.

Harvested acreage increased for most of the fresh market vegetable crops while the processed acreage decreased in 1986. Carrots acreage increased to a record high 5,800 acres, while processed green pease decreased to 47,600 acres, the lowest acreage since 1948.

Average yields of the vegetable crops were mixed in 1986, some increased while others decreased. The early season growth crops, asparagus, carrots, and lettuce, were affected by the fluctuating temperatures in May and June. Yields were down for these crops.

Average prices for all vegetables were also mixed in 1986. Growers of green peas for processing received a record high average price of $12.55 per cwt., $0.25 higher than the previous high in 1984. Washington lettuce growers received a record high $14.70 per cwt., $0.10 above the previous high in 1984. The average price received for fresh market sweet corn fell to $11.10, the lowest level since 1980.

Vegetable Crop Acreage, Production, Price, and Value

Crop and Year	Acreage Harvested	Yield Per Acre	Production	Average Price Per Cwt.	Value of Utilized Production	Fresh Market		Processing	
						Production	Average Price Per Cwt	Production	Average Price Per Cwt.
	Acres	Cwt.	1,000 Cwt.	Dollars	1,000 Dol.	1,000 Cwt.	Dollars	1,000 Cwt.	Dollars
Asparagus									
1982 1/	28,400	24	682	48.60	33,145	84	77.50	598	44.50
1983 1/	29,300	23	684	51.40	35,158	201	72.80	483	42.50
1984	29,000	25	725	51.70	37,454	217	72.60	508	42.70
1985	29,000	28	812	52.30	42,443	242	68.80	570	45.25
1986	30,000	26	780	52.10	40,612	290	67.30	490	43.05
Carrots									
1982	4,800	435	2,088	3.56	7,436	342	12.50	1,746	1.81
1983	4,000	400	1,600	5.54	8,871	388	16.60	1,212	2.01
1984	4,300	425	1,828	5.99	10,941	453	16.50	1,375	2.52
1985	5,200	435	2,262	4.98	11,257	456	14.10	1,806	2.67
1986	5,800	415	2,407	5.10	12,270	481	17.10	1,926	2.10
Cucumbers For Pickles*									
1984	1,500	223.6	335.4	8.10	2,717	-	-	335.4	8.10
1985	1,700	197.6	336.0	9.25	3,108	-	-	336.0	9.25
1986	1,700	180.0	306.0	8.00	2,448	-	-	306.0	8.00
Green Peas, Proc.									
1982	67,700	32.0	2,166.4	11.75	25,455	-	-	2,166.4	11.75
1983	65,600	29.8	1,954.8	10.25	20,037	-	-	1,954.8	10.25
1984	64,400	34.0	2,189.6	12.30	26,932	-	-	2,189.6	12.30
1985	61,500	32.0	1,968.0	12.00	23,616	-	-	1,968.0	12.00
1986	47,600	34.2	1,628.0	12.55	20,431	-	-	1,628.0	12.55
Lettuce, Fresh									
1982	1,200	180	216	11.10	2,398	216	11.10	-	-
1983	1,000	220	220	14.00	3,080	220	14.00	-	-
1984	1,100	210	231	14.60	3,373	231	14.60	-	-
1985	1,100	190	209	13.00	2,717	209	13.00	-	-
1986	1,200	180	216	14.70	3,175	216	14.70		

1/ Data provided by the Washington Asparagus Growers Assoc. Estimate program reinstated in 1984.
* 1982/83 Included in Other Processed vegetables. Estimate program reinstated in 1984.
\- Not applicable.

Vegetable Crop Acreage, Production, Price, and Value (Continued)

Crop and year	Acreage Harvested	Yield Per Acre	Production	Average Price Per Cwt.	Value of Utilized Production	Fresh Market		Processing	
						Production	Average Price Per Cwt.	Production	Average Price Per Cwt.
	Acres	Cwt.	1,000 Cwt.	Dollars	1,000 Dol.	1,000 Cwt.	Dollars	1,000 Cwt.	Dollars
Onions-Non Stge.									
1982	850	370	315	8.28	2,608	315	8.28	-	-
1983	1,200	410	492	8.28	4,074	492	8.28	-	-
1984	1,200	360	432	13.50	5,832	432	13.50	-	-
1985	1,300	300	390	17.40	6,786	390	17.40	-	-
1986	1,300	330	429	9.55	4,097	429	9.55	-	-
Onions-Stge.									
1982	3,900	380	1,482	5.26	5,302	1,482	5.26	-	-
1983	3,500	440	1,540	14.10	17,484	1,540	14.10	-	-
1984	4,300	450	1,935	9.07	14,512	1,935	9.07	-	-
1985	4,300	410	1,763	4.97	6,754	1,763	4.97	-	-
1986	4,400	420	1,848	12.90	19,673	1,848	12.90	-	-
Snap Beans-Proc.									
1982	2,100	70.4	147.8	8.30	1,227	-	-	148	8.30
1983	1,400	78.8	110.4	7.35	811	-	-	110	7.35
1984	1,100	67.0	73.8	11.15	823	-	-	74	11.15
1985	1,500	62.0	93.0	8.35	777	-	-	93	8.35
1986	1,200	81.7	98.0	10.10	990	-	-	98	10.10
Sweet Corn-Fresh									
1982	2,900	80	232	11.70	2,714	232	11.70	-	-
1983	2,600	85	221	13.50	2,984	221	13.50	-	-
1984	2,800	105	294	15.40	4,528	294	15.40	-	-
1985	3,300	110	363	13.20	4,792	363	13.20	-	-
1986	3,200	120	384	11.10	4,262	384	11.10	-	-
Sweet Corn-Proc.									
1982	51,700	181.6	9,388.8	3.53	33,142	-	-	9,389	3.53
1983	38,300	182.4	6,986.0	3.04	21,203	-	-	6,986	3.04
1984	32,900	149.4	4,915.2	3.40	16,712	-	-	4,915	3.40
1985	38,900	168.0	6,535.2	3.43	22,448	-	-	6,535	3.43
1986	35,300	167.4	5,909.2	3.43	20,269	-	-	5,909	3.43
Other-Fresh									
1982	8,000	-	1,374	-	27,993	1,374	-	-	-
1983	7,000	-	1,060	-	20,993	1,060	-	-	-
1984	7,900	-	1,118	-	23,558	1,118	-	-	-
1985	9,300	-	1,437	-	28,178	1,437	-	-	-
1986	10,800	-	1,546	-	30,847	1,546	-	-	-
Other-Proc.									
1982	4,700	-	400	-	3,495	-	-	400	-
1983	4,800	-	456	-	4,075	-	-	456	-
1984	3,800	-	160	-	2,300	-	-	160	-
1985	3,600	-	334	-	3,100	-	-	334	-
1986	5,200	-	322	-	3,200	-	-	322	-
State Total									
1982	176,250		18,492.0		144,915	4,045		14,447	-
1983	158,700		14,995.0		138,770	4,122		10,873	-
1984	155,700		14,524.0		149,682	4,680		9,844	-
1985	160,700		16,504.2		155,976	4,860		11,644	-
1986	147,700		15,873.2		162,274	5,194		10,679	-

- Not applicable.

ASPARAGUS

Washington asparagus growers harvested a record 30,000 acres in 1986, up 1,000 acres from 1985. Average yield harvested dropped to 26 cwt. per acre reducing production to 780,000 cwt.

The growing season was marked by fluctuating temperatures. Harvest began in the warmest areas April 2. Sub-freezing temperatures in late April and early May limited growth and harvest. Two weeks of hotter than normal weather in late May and early June also slowed growth and reduced quality. The last shipments were made on June 27.

A larger percentage of the crop went to the fresh market in 1986. Thirty-seven percent of the production went for fresh market in 1986 while only 30 percent went for fresh in 1985.

Acreage, Production, and Price

Year	Harvested Acreage	Yield Per Acre	Production	Average Price Per Cwt.
	Acres	Cwt.	1,000 Cwt.	Dollars
1977	20,200	33	667	32.70
1978	21,000	32	672	36.20
1979	21,000	28	588	44.80
1980	22,200	23	511	40.90
1981	23,700	25	593	49.40
1982 1/	28,400	24	682	48.60
1983 1/	29,300	23	684	51.40
1984	29,000	25	725	51.70
1985	29,000	28	812	52.30
1986	30,000	26	780	52.10

1/ Estimates by Washington Asparagus Growers Association.

Asparagus by County, 1985

County	Harvested Acreage	Yield Per Acre	Production
	Acres	Cwt.	Cwt.
Benton	2,000	25.0	50,000
Yakima	11,000	29.5	325,000
Franklin	9,200	28.0	258,000
Grant	900	30.0	27,000
Walla Walla	5,500	25.8	142,000
Other Co.	400	25.0	10,000
State Total	29,000	28.0	812,000

Asparagus by County, 1986

County	Harvested Acreage	Yield Per Acre	Production
	Acres	Cwt.	Cwt.
Benton	2,100	24.3	51,000
Yakima	11,900	26.5	315,000
Franklin	9,200	26.0	239,000
Grant	900	27.8	25,000
Walla Walla	5,500	25.5	140,000
Other Co.	400	25.0	10,000
State Total	30,000	26.0	780,000

CARROTS

Washington carrot growers produced a record 2.4 million cwt. from a record 5,800 harvested acres. Production was up 6 percent form 1985, while acreage increased 12 percent.

Seeding of the crop began the week of May 2 in the warmest areas. Hot weather in late May and early June damaged young plants and required some replanting. Temperatures were milder than normal the rest of the growing season and digging continued longer than normal. Harvest was complete for the most part by December 10. Average yield was 415 cwt. per acre - down 20 cwt. from 1985. Average value rose $.0.12 per cwt. tc $5.10 per cwt., in 1986.

Approximately 80 percent of the carrot crop was processed in 1986. Washington ranks second behind California with 10 percent of U.S. production.

Acreage, Production, and Price

Year	Harvested Acreage	Yield Per Acre	Production	Average Price Per Cwt.
	Acres	Cwt.	1,000 Cwt.	Dollars
1977	5,000	467	2,335	2.91
1978	4,500	404	1,820	2.84
1979	5,000	447	2,237	3.74
1980	4,150	467	1,938	5.74
1981	4,400	400	1,760	5.56
1982	4,800	435	2,088	3.56
1983	4,000	400	1,600	5.54
1984	4,300	425	1,828	5.99
1985	5,200	435	2,262	4.98
1986	5,800	415	2,407	5.10

Carrots by County, 1985

County	Harvested Acreage	Yield Per Acre	Production
	Acres	Cwt.	Cwt.
Adams	150	400.0	60,000
Benton	150	400.0	60,000
Cowlitz	100	380.0	38,000
Franklin	1,750	443.4	776,000
Grant	800	510.0	408,000
Klickitat	200	420.0	84,000
Lewis	50	400.0	20,000
Skagit	750	476.0	357,000
Thurston	250	404.0	101,000
Whatcom	700	340.0	238,000
Yakima	100	400.0	40,000
Other Co.	200	400.0	80,000
State Total	5,200	435.0	2,262,000

Carrots by County, 1986

County	Harvested Acreage	Yield Per Acre	Production
	Acres	Cwt.	Cwt.
Adams	200	420.0	84,000
Benton	200	400.0	80,000
Cowlitz	200	370.0	74,000
Franklin	1,800	435.0	783,000
Grant	950	491.6	467,000
Klickitat	200	425.0	85,000
Skagit	600	460.0	276,000
Thurston	300	400.0	120,000
Whatcom	1,000	300.0	300,000
Yakima	100	400.0	40,000
Other Co.	250	392.0	98,000
State Total	5,800	415.0	2,407,000

SWEET CORN

High inventory levels of both canned and frozen products in the Pacific Northwest reduced the contracted processing acreage of sweet corn in Washington in 1986. All sweet corn acreage was 38,500 acres, down 9 percent from 1985. Average yield was unchanged from 1985 at 163 cwt. per acre. Early seedings suffered some frost damage in early May. Warmer temperatures in late May and June led to increased growth. Harvest took place from July 14 to August 15, the same period as in 1985. Quality was very good throughout the season. Total sweet corn production was down 9 percent from 1985. The average price received by growers fell $0.05 to $3.90 per cwt.

Acreage, Production, and Price

Year	Harvested Acreage	Yield Per Acre	Production	Average Price Per Cwt.
	Acres	Cwt.	1,000 Cwt.	Dollars
1977	39,600	119	4,705	3.19
1978	43,500	149	6,500	3.15
1979	43,200	151	6,537	3.55
1980	39,500	160	6,324	3.27
1981	44,600	154	6,865	3.48
1982	54,600	176	9,621	3.73
1983	40,900	176	7,207	3.36
1984	35,700	146	5,209	4.08
1985	42,200	163	6,898	3.95
1986	38,500	163	6,293	3.90

Sweet Corn by County, 1985

County	Harvested Acreage	Yield Per Acre	Production
	Acres	Cwt.	1,000 Cwt.
Benton	1,700	195.9	333,000
Clark	700	178.6	125,000
Cowlitz	1,150	166.1	191,000
Franklin	5,870	154.3	906,000
Grant	17,660	170.7	3,014,000
Kittitas	4,270	173.3	740,000
Lewis	1,160	158.6	184,000
Skagit	510	129.8	66,200
Walla Walla	2,600	153.8	400,000
Whatcom	870	87.4	76,000
Yakima	5,710	151.1	863,000
State Total	42,200	163.5	6,898,200

Sweet Corn by County, 1986

County	Harvested Acreage	Yield Per Acre	Production
	Acres	Cwt.	Cwt.
Benton	2,700	193.2	521,600
Clark	500	141.0	70,500
Cowlitz	1,100	131.8	145,000
Franklin	4,000	146.3	585,000
Grant	13,500	177.3	2,394,000
Kittitas	4,000	152.7	610,600
Lewis	1,100	127.3	140,000
Skagit	1,000	129.8	129,800
Walla Walla	3,500	179.4	628,000
Whatcom	500	87.4	43,700
Yakima	6,400	156.9	1,004,200
Other Co.	200	103.0	20,600
State Total	38,500	163.5	6,293,000

GREEN PEAS - PROCESSING

Large inventories of both canned and frozen green peas led to reduced contracted acreage in the Pacific Northwest in 1986. Harvested acreage in Washington decreased to 47,600 acres, down 23 percent from 1985, and the lowest harvested acreage since 1948.

Favorable growing weather in July led to increased yields of 34 cwt. per acre. Total production of 1,628,000 cwt. decreased 17 percent from 1985. The average price received by growers increased to $12.55 per cwt., up $0.55 per cwt. from 1985.

Nationally, Washington was the third largest green pea producing state in the U.S. The three largest states (Wisconsin, Minnesota, and Washington) accounted for 70 percent of the total U.S. production in 1986. U.S. green pea production of 414,880 tons was down 28 percent from 1985.

Acreage, Production, and Price

Year	Harvested Acreage	Yield Per Acre	Production	Average Price Per Cwt.
	Acres	Cwt.	1,000 Cwt.	Dollars
1977	69,000	31	2,125	10.10
1978	75,000	32	2,370	10.20
1979	81,100	34	2,790	11.10
1980	57,800	33	1,907	9.65
1981	59,600	30	1,764	10.15
1982	67,700	32	2,166	11.75
1983	65,600	30	1,955	10.25
1984	64,400	34	2,190	12.30
1985	61,500	32	1,968	12.00
1986	47,600	34	1,628	12.55

Green Peas by County, 1985

County	Harvested Acreage	Yield Per Acre	Production
	Acres	Cwt.	Cwt.
Columbia	6,670	20.2	134,000
Cowlitz	500	44.0	22,000
Franklin	1,200	25.0	30,000
Grant	4,400	46.0	202,000
Grays Harbor	1,650	43.6	72,000
Lewis	5,340	33.4	178,000
Skagit	15,150	42.2	640,000
Snohomish	3,330	37.2	124,000
Thurston	340	29.4	10,000
Walla Walla	12,780	20.7	264,000
Whatcom	5,910	37.6	222,000
Whitman	4,230	16.6	70,000
State Total	61,500	32.0	1,968,000

Green Peas by County, 1986

County	Harvested Acreage	Yield Per Acre	Production
	Acres	Cwt.	Cwt.
Columbia	2,400	12.5	30,000
Franklin	1,000	42.0	42,000
Grant	2,700	48.9	132,000
Grays Harbor	1,670	35.9	60,000
Lewis	4,180	37.3	156,000
Skagit	14,600	47.8	698,000
Snohomish	2,030	46.3	94,000
Walla Walla	11,580	15.7	182,000
Whatcom	2,980	45.0	134,000
Whitman	4,020	19.9	80,000
Other Counties	440	45.5	20,000
State Total	47,600	34.2	1,628,000

SNAP BEANS - PROCESSING

Washington processors contracted for 1,200 acres of snap beans in 1986, down 20 percent from 1985. Excellent growing conditions led to a higher yield of 82 cwt. per acre. Total production rose 6 percent to 98,000 cwt. The average price rose to $10.10 per cwt.

Nationally, U.S. processors contracted for 190,560 acres, 13 percent less snap bean acreage in 1986, primarily because of large canned stocks.

Acreage, Production, and Price

Year	Harvested Acreage	Yield Per Acre	Production	Average Price Per Cwt.
	Acres	Cwt.	1,000 Cwt.	Dollars
1977	1,600	51	82	6.80
1978	2,100	62	130	7.05
1979	2,300	79	181	7.95
1980	2,400	76	181	8.15
1981	1,600	61	97	8.55
1982	2,100	70	148	8.30
1983	1,400	79	110	7.35
1984	1,100	67	74	11.15
1985	1,500	62	93	8.35
1986	1,200	82	98	10.10

Snap Beans by County, 1985

County	Harvested Acreage	Yield Per Acre	Production
	Acres	Cwt.	Cwt.
Walla Walla	660	50.2	33,130
Whatcom	840	71.3	59,870
State Total	1,500	62.0	93,000

Snap Beans by County, 1986

County	Harvested Acreage	Yield Per Acre	Production
	Acres	Cwt.	Cwt.
Walla Walla	480	79.2	38,000
Whatcom	720	83.3	60,000
State Total	1,200	81.7	98,000

MUSHROOMS

Mushroom production in Washington for 1986 increased for the seventh consecutive year. Production has gradually increased from 3,326,000 pounds in 1979 to 6,485,000 pounds in 1986. Fillings in 1986 increased 12 percent from last year to 1.84 million square feet and production is up 20 percent. The average price in Washington was virtually unchanged from 1985 at 96.6 cents per pound. The fresh market crop accounted for 97 percent of the total volume of sales.

Acreage, Production, Price, and Value

Year	Total Fillings	Production	Price Per Pound	Value Of Production
	1,000 Square Feet	1,000 Lbs.	Dollars	1,000 Lbs.
1976-77	1,169	3,422	.827	2,831
1977-78	1,320	4,020	.900	3,617
1978-79	1,571	3,326	.969	3,223
1979-80	1,740	3,380	1.090	3,671
1980-81	1,446	4,038	1.170	4,713
1981-82	1,108	4,705	1.210	5,688
1982-83	1,195	4,799	1.140	5,474
1983-84	1,196	4,891	1.060	5,186
1984-85	1,640	5,417	.965	5,229
1985-86	1,844	6,485	.966	6,263

DRY ONIONS

Harvested acreage of storage-type onions in Washington rose 100 acres for a total of 4,400 acres in 1986. Production increased to 1.8 million cwt., up 5 percent from last year. Yield increased to 420 cwt. per acre as favorable weather prevailed throughout the summer. Rains delayed harvest in late September and early October but most of the crop was in storage by October 15.

Harvested acreage of non-storage onions remained unchanged from 1985 at 1,300 acres. Yield increased to 300 cwt. per acre despite record low temperatures in November and December along with a 70 day snow cover. An estimated 30 percent of the fall seeded Walla Walla sweet onion crop had to be reseeded to early hybrid onions or other crops due to the adverse winter conditions. Production increased to 429,000 cwt., up 10 percent from last year.

The average price per cwt. received by onion growers rose to $10.44 in 1986. This was mainly due to an increase in the storage onion price to $12.90, up $7.93 from 1985. A poor onion crop in the eastern United States led to a higher demand and price for Washington onions.

The U.S. non-storage onion production was up 35 percent from 1985 and led to oversupply and a lower price for growers. The average price received by Washington producers in 1986 was $9.55, down $7.85 per cwt. from 1985.

Acreage, Production, and Price

Year	Harvested Acreage	Yield Per Acre	Production 1/	Average Price Per Cwt.
	Acres	Cwt.	1,000 Cwt.	Dollars
1977	3,300	397	1,311	6.43
1978	3,900	380	1,482	9.40
1979	4,650	395	1,838	6.50
1980	4,080	387	1,577	11.14
1981	4,500	400	1,800	14.85
1982	4,750	378	1,797	5.98
1983	4,700	432	2,032	12.45
1984	5,500	430	2,367	10.04
1985	5,600	384	2,153	6.29
1986	5,700	399	2,277	10.44

1/ Includes shrinkage and loss.

Dry Onions by County, 1985

County	Harvested Acreage	Yield Per Acre	Production
	Acres	Cwt.	Cwt.
Clark	100	280.0	28,000
Adams	1,100	420.0	462,000
Benton	500	390.0	195,000
Franklin	300	350.0	105,000
Grant	1,600	390.0	624,000
Walla Walla	1,300	390.0	507,000
Yakima	600	340.0	204,000
Other Co.	100	280.0	28,000
State Total	5,600	384.5	2,153,000

Dry Onions by County, 1986

County	Harvested Acreage	Yield Per Acre	Production
	Acres	Cwt.	Cwt.
Adams	1,200	425.0	510,000
Benton	500	392.0	196,000
Franklin	300	380.0	114,000
Grant	1,700	410.0	697,000
Walla Walla	1,300	400.0	520,000
Yakima	600	350.0	210,000
Other Co.	100	300.0	30,000
State Total	5,700	399.5	2,277,000

LETTUCE

Harvested acreage of lettuce in Washington increased to 1,200 acres in 1986, up 100 acres from 1985.

Production increased to 216,000 cwt. despite a decreased average yield of 180 cwt. per acre. The average price received by growers increased to a record high of $14.70 per cwt., $0.10 above the previous record price set in 1984.

Nationally, lettuce production declined 5 percent to 58.5 million cwt. The two largest states - California and Arizona - accounted for over 90 percent of the U.S. crop in 1986.

Acreage, Production, and Price

Year	Harvested Acreage	Yield Per Acre	Production	Average Price Per Cwt.
	Acres	Cwt.	1,000 Cwt.	Dollars
1977	1,100	195	215	7.40
1978	1,200	170	204	7.90
1979	1,200	170	204	11.70
1980	1,200	200	240	12.80
1981	1,200	195	234	13.30
1982	1,200	180	216	11.10
1983	1,000	220	220	14.00
1984	1,100	210	231	14.60
1985	1,100	190	209	13.00
1986	1,200	180	216	14.70

Lettuce by County, 1985

County	Harvested Acreage	Yield Per Acre	Production
	Acres	Cwt.	Cwt.
Clark	200	200.0	40,000
King	100	140.0	14,000
Pierce	450	200.0	90,000
Spokane	100	250.0	25,000
Other Co.	250	160.0	40,000
State Total	1,100	190.0	209,000

Lettuce by County, 1986

County	Harvested Acreage	Yield Per Acre	Production
	Acres	Cwt.	Cwt.
Clark	200	190.0	38,000
King	180	150.0	27,000
Pierce	450	193.3	87,000
Spokane	100	240.0	24,000
Other Co.	270	148.1	40,000
State Total	1,200	180.0	216,000

BERRIES

Unusually cold weather during the winter of 1985-86 resulted in a high incidence of freeze damage, and coupled with spring frosts, reduced Washington's 1986 berry output. Total production for all crops estimated were considerably lower than a year earlier. Acreage harvested remained unchanged for blueberries, cranberries, black raspberries, and blackberries; increased for red raspberries; and decreased for strawberries. The State's average yields per acre for strawberries and red raspberries were the lowest since 1956 and the average blueberry yield was the lowest since 1957. Average prices growers received for 1986 crops were higher than a year earlier, with the exception of blackberries and cranberries.

Berry Crop Acreage, Production, Price, and Value

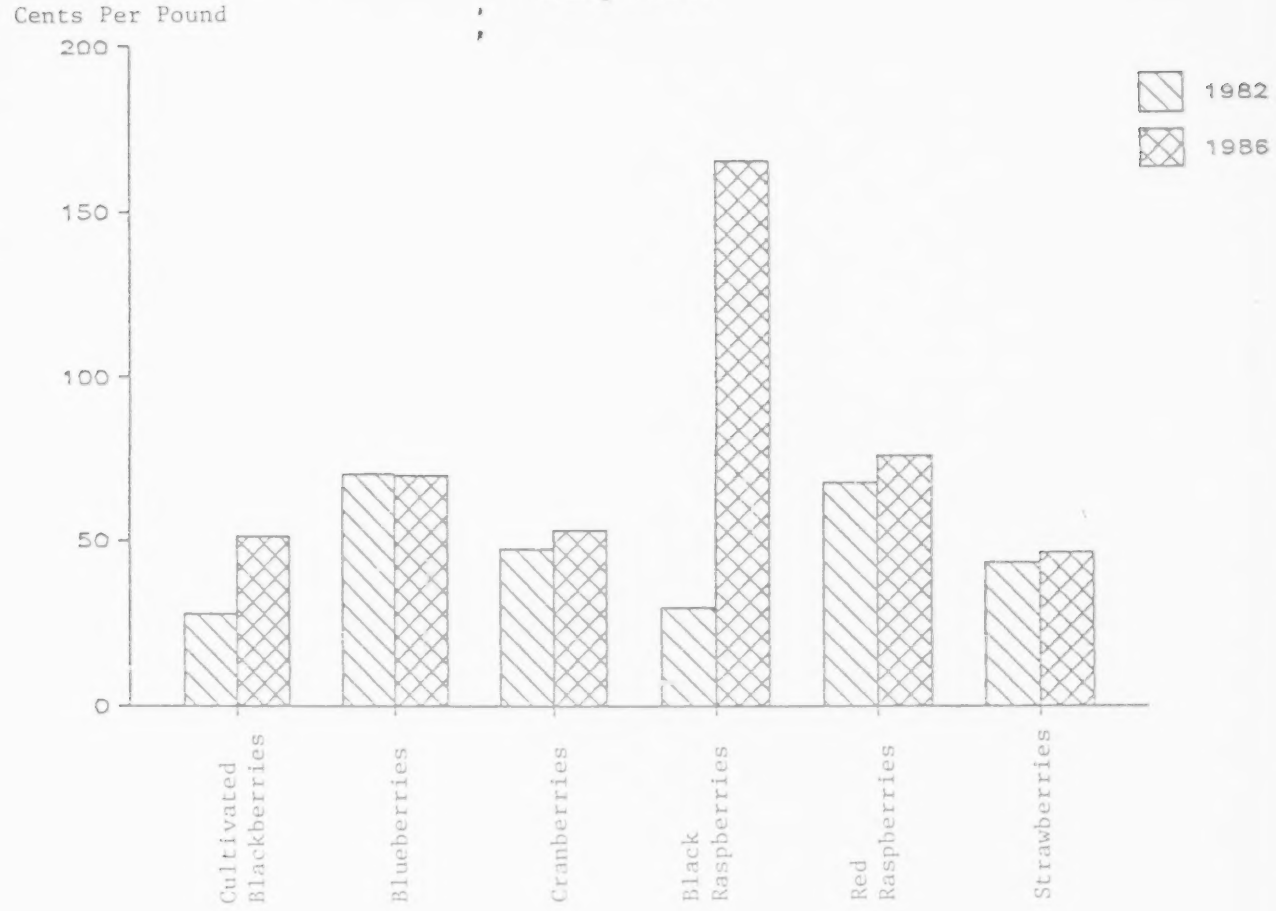
Crop and Year	Acreage Harvested	Yield Per Acre	Utilized Production	Average Price Per Lb.	Value of Utilized Production	Fresh Market		Processing	
						Production	Average Price Per Lb.	Production	Average Price Per Lb.
	Acres	Lbs.	1,000 Lbs.	Cents	1,000 Dol.	1,000 Lbs.	Cents	1,000 Lbs.	Cents
Cultivated Blackberries									
1982	160	3,800	608	27.8	169	308	44.1	300	11.0
1983	160	4,250	680	30.0	204	190	54.8	490	20.4
1984	160	5,000	800	44.5	356	200	58.0	600	40.0
1985	150	4,700	705	53.2	375	315	62.0	390	46.0
1986	150	3,800	570	51.1	292	170	75.0	400	41.0
Blueberries									
1982	900	6,800	6,120	70.0	4,283	1,620	72.4	4,500	69.1
1983	900	8,000	7,200	64.4	4,637	2,250	73.1	4,950	60.5
1984	800	6,000	4,800	49.8	2,390	1,700	64.0	3,100	42.0
1985	800	6,875	5,500	62.9	3,462	2,100	79.7	3,400	52.6
1986	800	3,625	2,900	69.7	2,022	1,100	81.5	1,800	62.5
Cranberries 1/									
1982	1,100	8,360	9,200	47.1	4,333	1,100	-	7,600	-
1983	1,100	11,360	12,500	52.5	6,563	1,330	-	10,930	-
1984	1,100	9,360	10,300	55.4	5,706	980	-	9,070	-
1985	1,200	12,330	14,800	55.5	8,214	4,070	-	10,630	-
1986	1,200	8,330	10,000	53.0	5,300	4,620	-	5,340	-
Black Raspberries									
1982	110	1,230	135	29.6	40	4	29.0	131	29.0
1983	110	1,000	110	51.4	57	10	65.0	100	50.0
1984	100	850	85	55.3	47	15	59.0	70	55.0
1985	100	950	95	138.9	132	25	135.0	70	140.0
1986	100	700	70	165.7	116	14	170.0	56	165.0
Red Raspberries									
1982	3,100	5,700	17,670	67.3	11,892	1,800	78.8	15,870	66.0
1983	3,000	5,800	17,400	43.0	7,482	1,740	83.4	15,660	38.5
1984	3,000	5,450	16,350	49.2	8,047	1,150	78.5	15,200	47.0
1985	3,200	5,250	16,800	56.1	9,433	1,000	75.9	15,800	54.9
1986	3,300	4,200	13,860	75.8	10,509	1,040	86.0	12,820	75.0
Strawberries									
1982	3,000	6,200	18,600	43.4	8,072	5,200	47.0	13,400	42.0
1983	3,100	6,200	19,200	40.5	7,777	3,700	51.0	15,500	38.0
1984	3,000	7,000	21,000	25.8	5,424	2,200	50.0	18,800	23.0
1985	3,000	7,100	21,300	32.7	6,971	2,300	47.0	19,000	31.0
1986	2,800	5,000	14,000	46.4	6,500	2,000	55.0	12,000	45.0
State Total 2/									
1982	8,370	-	52,333	-	28,881	10,032	-	41,801	-
1983	8,370	-	57,090	-	26,750	9,220	-	47,630	-
1984	8,160	-	53,335	-	21,985	6,245	-	46,840	-
1985	8,450	-	59,200	-	28,652	9,810	-	49,290	-
1986	8,350	-	41,400	-	24,846	8,944	-	32,416	-

1/ Utilized Production includes berries lost because of dehydration and berry breakdown after delivery: 1982=500,000 lbs.; 1983=240,000 lbs.; 1984=250,000 lbs.; 1985=100,000 lbs.

2/ The State Total for the value of production includes the value for miscellaneous berries.

- Not Available.

Berry Prices



BLACK RASPBERRIES

A combination of winter freeze injury and spring frosts reduced black raspberry production in the State for 1986. The average yield per acre was down 250 pounds from the previous year to 700 pounds, the lowest average since 1981. Harvested acreage remained unchanged from the previous year at 150 acres.

Due to the decline in average yield, utilized production of 70,000 pounds was 26 percent lower than in 1985. The average price received by growers remained strong, increasing 26.8 cents from 1985 to 165.7 cents per pound.

Acreage, Production, and Price

Year	Acreage Harvested	Yield Per Acre	Utilized Production	Average Price Per Lb.
	Acres	Lbs.	1,000 Lbs.	Cents
1977	110	1,730	190	64.7
1978	130	1,360	177	75.0
1979	130	2,200	286	86.7
1980	120	1,460	175	41.0
1981	120	670	80	26.1
1982	110	1,230	135	29.6
1983	110	1,000	110	51.4
1984	100	850	85	55.3
1985	100	950	95	138.9
1986	100	700	70	165.7

STRAWBERRIES

Western Washington strawberry fields sustained damage during the deep freeze of November 1985, and late spring frosts injured many fields during the bloom period. Cool, wet spring weather delayed crop progess in most areas and picking began about a week later than normal. Many growers also reported poor berry size.

Acres harvested, at 2,800, was 200 acres lower than 1985. Yield per acre decreased 2,100 pounds to an average of 5,000 pounds. Total production of 14.0 million pounds is 34 percent lower than 1985 and was the lowest level since 1956. The average price per pound received by growers remained strong, up 13.7 cents from a year earlier to 46.4 cents.

Acreage, Production, and Price

Year	Acreage Harvested	Yield Per Acre	Utilized Production	Average Price Per Lb.
	Acres	Lbs.	1,000 Lbs.	Cents
1977	3,300	6,100	20,100	28.0
1978	3,300	5,300	17,500	25.4
1979	3,100	5,300	16,400	34.7
1980	2,900	6,000	17,400	34.7
1981	2,800	6,000	16,800	38.3
1982	3,000	6,200	18,600	43.4
1983	3,100	6,200	19,200	40.5
1984	3,000	7,000	21,000	25.8
1985	3,000	7,100	21,300	32.7
1986	2,800	5,000	14,000	46.4

Strawberries by County, 1985

County	Acreage Harvested	Production
	Acres	1,000 Lbs.
Clallam	50	250
Clark	150	600
King	390	2,030
Kitsap	50	295
Lewis	100	440
Pierce	360	1,870
Skagit	690	6,930
Snohomish	260	1,740
Spokane	90	315
Thurston	120	505
Whatcom	610	5,735
Other Counties	130	590
State Total	3,000	21,300

Strawberries by County, 1986

County	Acreage Harvested	Production
	Acres	1,000 Lbs.
Clallam	50	225
Clark	100	600
King	300	1,580
Kitsap	50	265
Lewis	100	200
Pierce	330	1,485
Skagit	750	3,075
Snohomish	280	1,370
Spokane	60	250
Thurston	90	390
Whatcom	600	4,200
Other Counties	90	360
State Total	2,800	14,000

RED RASPBERRIES

Extreme cold periods during the winter of 1985-86 and spring frosts were problems for Washington red raspberry producers in 1986. Overall, berry quality was reported to be good. However, most growers reported sharp declines in output.

Acreage harvested increased 100 acres from last year to 3,300 acres. The yield per acre averaged 4,200 pounds, a decrease of 1,050 pounds from 1985, and was the lowest average since 1956. Utilized production, at 13.9 million pounds, decreased 17 percent from a year ago. The average price per pound was very strong at 75.8 cents compared to 56.1 cents for the 1985 crop.

Acreage, Production, and Price

Year	Acreage Harvested	Yield Per Acre	Utilized Production	Average Price Per Lb.
	Acres	Lbs.	1,000 Lbs.	Cents
1977	2,800	5,230	14,644	44.6
1978	2,600	5,100	13,260	70.4
1979	2,600	4,900	12,740	69.5
1980	2,800	4,500	12,600	37.3
1981	3,000	4,750	14,250	52.0
1982	3,100	5,700	17,670	67.3
1983	3,000	5,800	17,400	43.0
1984	3,000	5,450	16,350	49.2
1985	3,200	5,250	16,800	56.1
1986	3,300	4,200	13,860	75.8

Red Raspberries by County, 1985

County	Acreage Harvested	Production
	Acres	1,000 Lbs.
Clark	440	2,200
King	60	245
Kitsap	40	150
Lewis	30	60
Pierce	370	2,145
Skagit	450	2,745
Snohomish	130	740
Spokane	50	195
Whatcom	1,430	7,150
Yakima	30	120
Other Counties	170	1,050
State Total	3,200	16,800

Red Raspberries by County, 1986

County	Acreage Harvested	Production
	Acres	1,000 Lbs.
Clark	425	1,700
King	55	165
Kitsap	40	160
Lewis	50	100
Pierce	400	1,480
Skagit	450	2,430
Snohomish	130	585
Spokane	50	175
Whatcom	1,500	6,000
Yakima	25	120
Other Counties	175	945
State Total	3,300	13,860

BLUEBERRIES

Washington blueberry producers reported reduced output due to winter freeze damage and spring frosts. Losses due to mummy berry disease were reported to be lower than those experienced a year earlier, and overall berry quality was reported to be good. Reports of bird damage were up considerably from 1985.

Acreage harvested remained unchanged from last year at 800 acres. However, average yield per acre declined 3,250 pounds from 1985 to 3,625 pounds, the lowest since 1957. Utilized production was down 47 percent from last year, totaling 2,900,000 pounds. The average price received by growers increased 6.8 cents from last year to 69.7 cents.

Acreage, Production, and Price

Year	Acreage Harvested	Yield Per Acre	Utilized Production	Average Price Per Lb.
	Acres	Lbs.	1,000 Lbs.	Cents
1977	800	5,120	4,096	59.7
1978	800	6,030	4,824	64.1
1979	790	5,990	4,792	54.8
1980	800	6,380	5,100	54.7
1981	800	5,750	4,600	60.5
1982	900	6,800	6,120	70.0
1983	900	8,000	7,200	64.4
1984	800	6,000	4,800	49.8
1985	800	6,875	5,500	62.9
1986	800	3,625	2,900	69.7

Blueberries by County, 1985

County	Acreage Harvested	Production
	Acres	1,000 Lbs.
King	100	360
Pierce	110	930
Snohomish	30	165
Thurston	100	710
Other Counties	460	3,335
State Total	800	5,500

Blueberries by County, 1986

County	Acreage Harvested	Production
	Acres	1,000 Lbs.
King	100	300
Pierce	120	310
Snohomish	40	110
Thurston	100	550
Other Counties	440	1,630
State Total	800	2,900

CRANBERRIES

A staggered, longer than normal blossoming period resulted in a large variation in berry size and set between bogs. Bloom was lighter than normal and berry set was adversely affected by cool, wet weather. Reports of insect damage, especially from cranberry girdlers and blackvine weevils, was common.

The 1986 average yield per acre of 83.3 barrels was the lowest average since 1966. Harvested acreage remained unchanged from 1985 at 1,200 acres. Total utilized production of 100,000 barrels was 32 percent lower than last year. The average price received by growers was down 2.5 cents per pound from a year earlier to 53 cents.

Acreage, Production, and Price

Year	Acreage Harvested	Yield Per Acre	Utilized Production	Average Price Per Lb.
	Acres	Lbs.	1,000 Lbs.	Cents
1977	1,100	12,360	13,600	18.9
1978	1,100	12,640	13,900	21.7
1979	1,100	13,360	14,700	26.7
1980	1,100	9,450	10,400	33.1
1981	1,100	11,730	12,900	41.7
1982	1,100	8,360	9,200	47.1
1983	1,100	11,360	12,500	52.5
1984	1,100	9,360	10,300	55.4
1985	1,200	12,330	14,800	55.5
1986	1,200	8,330	10,000	53.0

CULTIVATED BLACKBERRIES

Blackberry acreage harvested remained unchanged from 1985 at 150 acres. Winter injury, sustained during the hard freeze that occurred during November 1985, resulted in reduced output for most growers in 1986. The average yield per acre was 3,800 pounds compared to the 1985 average of 4,700 pounds.

Due to the reduced yield per acre, the utilized production of 570,000 pounds is 19 percent lower than in 1985. Growers received an average of 51.1 cents per pound, a decrease of 2.1 cents from 1985.

Acreage, Production, and Price

Year	Acreage Harvested	Yield Per Acre	Utilized Production	Average Price Per Lb.
	Acres	Lbs.	1,000 Lbs.	Cents
1977	210	5,900	1,239	40.5
1978	200	5,300	1,060	49.1
1979	200	2,540	508	55.2
1980	240	3,500	840	15.8
1981	220	3,750	825	22.5
1982	160	3,800	608	27.8
1983	160	4,250	680	30.0
1984	160	5,000	800	44.5
1985	150	4,700	705	53.2
1986	150	3,800	570	51.1

LIVESTOCK AND POULTRY

General Information

Looking back to the roots of the cattle industry in Washington, we are reminded that some of the earliest cattle used in stocking ranges in Washington were descendents of cattle brought west by the pioneers settling the Oregon Territory. The number of livestock herded over the Oregon Trail is not known, but estimates say 10,000 head of cattle were trailed from the Mississippi Valley during the period 1842-1848. Some immigrants imported breeding stock. Durhams were brought in, and on several occasions shorthorn cattle. The immigration west of 1847 numbered 4,000 to 5,000 people presumably with substantial herds of livestock.

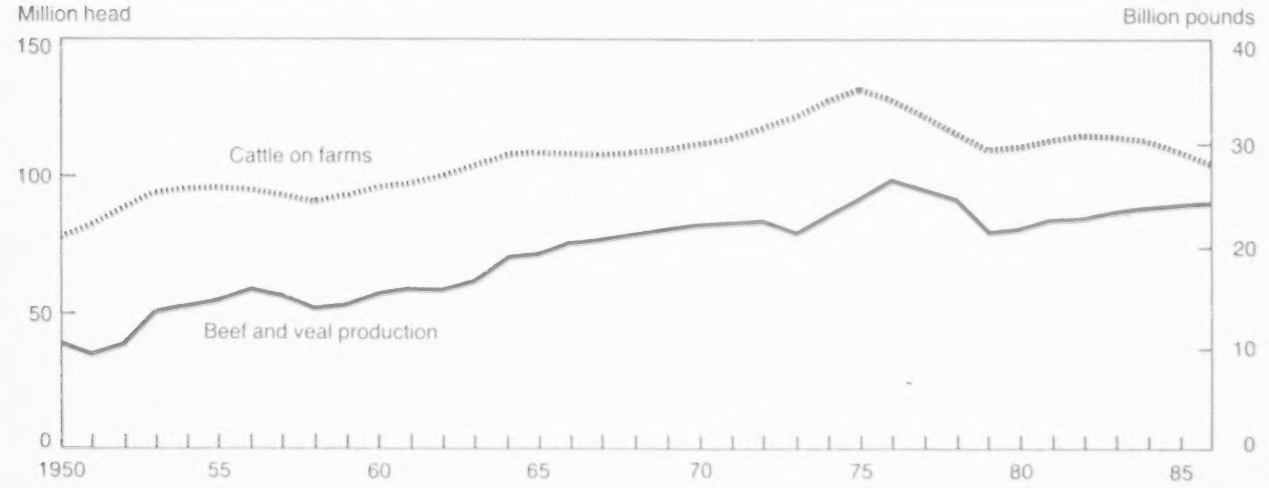
The inception of the national dairy termination program of April 1, 1986, gave Washington dairy farmers the opportunity to terminate milk production and dispose of their whole herd by selling to slaughter or exporting all female dairy cattle. The program was designed to stop excess milk production and pare down the mountains of surplus cheese and butter jammed into government warehouses. The program prompted 250 commercial dairy farmers to look for another line of work. Milk cow numbers in Washington declined 10 percent from 223,000 head at the beginning of 1986 to 201,000 head at the end of the year. Contrary to the expected result, total milk production for 1986 rose slightly from 3,750 million pounds in 1985 to 3,762 million pounds in 1986.

Hogs and pigs ranked thirty-first in Washington's principal farm commodities and provided less than one percent of the total crop and livestock farm receipts. Inventories peaked at the end of World War II at 434,000 head, and since have trended downward.

The combined value of production for sheep, lambs, and wool placed thirty-fifth for all farm commodities. In the early history of Washington, sheep were produced almost exclusively for wool. The early wool production centered on Pierce, Thurston, and Clark Counties. In 1870, this area produced 53 percent of the wool clip while Whatcom and Island Counties farms produced 25 percent, and Walla Walla County farms accounted for 19 percent.

The poultry industry has broadened and changed markedly since the days when Pilgrims celebrated the harvest by feasting on wild turkey. Today, poultry is among Washington's most popular meats consumed. The U.S. Department of Agriculture studies show that the consumption of chicken and turkey combined nearly equaled that of beef for the first time ever in 1986.

Cattle Numbers and Beef Production



1986 production forecast. Cattle and calves on farms January 1.

Value of Production, Washington

Commodity	1982	1983	1984	1985	1986
			$1,000		
All Cattle	335,024	317,284	339,578	287,784	294,337
Milk	440,125	476,019	466,845	478,471	468,980
All Hogs and Pigs	9,477	9,660	8,992	7,223	7,227
All Sheep and Lambs	2,296	2,143	2,183	3,200	3,376
Wool	391	287	407	279	320
Chickens, Layers	1,221	1,113	1,071	1,170	1,034
Eggs	60,253	58,110	67,803	55,103	55,577
Chickens, Broilers	28,649	29,766	35,805	32,890	35,015
Mink	5,909	5,504	6,928	7,910	8,085
Honey	N/A	N/A	N/A	N/A	1,692
Minor Livestock and Poultry	9,140	8,548	9,911	11,121	10,635
Total	892,485	908,434	939,523	885,151	886,278

Inventory and Value, January 1

Species and Year	Washington			United States		
	Inventory	Value		Inventory	Value	
		Per Head	Total		Per Head	Total
	1,000	Dollars	1,000 Dollars	1,000	Dollars	1,000 Dollars
All Cattle and Calves						
1983	1,505	470.00	707,350	115,001	406.00	46,708,350
1984	1,560	465.00	725,400	113,700	396.00	44,975,575
1985	1,470	475.00	698,250	109,749	402.00	44,138,618
1986	1,460	440.00	642,400	105,468	391.00	41,279,749
1987	1,300	485.00	630,500	102,031	407.00	41,491,650
All Hogs and Pigs 1/						
1983	51	93.00	4,743	54,534	89.90	4,903,494
1984	53	87.50	4,638	56,694	58.80	3,330,803
1985	45	75.50	3,398	54,043	75.00	4,055,724
1986	51	77.00	3,927	52,313	69.60	3,640,368
1987	50	111.00	5,550	50,960	91.60	4,669,498
All Sheep and Lambs						
1983	65	57.50	3,738	12,140	51.80	628,599
1984	62	59.00	3,658	11,487	52.10	598,904
1985	53	62.00	3,286	10,443	61.10	637,873
1986	58	68.00	3,944	9,983	67.40	673,048
1987	59	75.50	4,455	10,328	75.70	781,800
All Chickens 1/ 2/						
1983	6,213	1.60	9,941	379,219	1.85	702,556
1984	6,132	1.70	10,424	364,880	1.96	716,700
1985	6,130	1.45	8,889	374,008	2.02	754,312
1986	6,624	1.85	12,254	368,548	1.90	700,150
1987	5,700	1.60	9,120	368,681	1.87	690,165
Total Value -- All Species 2/						
1983			725,772			52,942,999
1984			744,120			49,621,982
1985			713,823			49,586,527
1986			662,525			46,293,315
1987			649,625			47,633,113

1/ December 1 of previous year.
2/ Excludes broilers.

CATTLE AND CALVES

Cattle and calves are ranked fourth in value of production among the principal agricultural commodities produced in Washington during 1986. The value of production, at $294.3 million, rose 2 percent over the previous year due to an increase in total pounds of beef produced. This is in spite of a decline in the season average prices for both cattle and calves. The cattle price declined $1.70 per cwt. and the calf price dipped $.80 per cwt.

The January 1, 1987, inventory of cattle and calves, at 1,300,000 head, is 11 percent below the previous year. This is the lowest inventory since 1978 when it was estimated at 1,275,000 head. The dairy buyout program, started in April 1986, pruned 10 percent off of the dairy cow inventory during 1986. Beef cows declined only 2 percent.

The number of operations with cattle in Washington during 1986 was estimated at 23,000, unchanged from the 1985 estimate.

Inventory on Farms by Class, January 1

Class	1983	1984	1985	1986	1987
			1,000 Head		
Cows and Heifers that have Calved					
Beef Cows	417	436	398	407	399
Milk Cows	213	214	211	223	201
Total	630	650	609	630	600
Heifers, 500 pounds and over					
For Beef Cow Replacement	79	70	88	73	75
For Milk Cow Replacement	94	95	132	115	80
Other Heifers	127	125	102	112	103
Total	300	290	322	300	258
Steers, 500 pounds and over	239	285	249	236	209
Bulls, 500 pounds and over	31	32	27	28	23
Calves, less than 500 pounds	305	303	263	266	210
All Cattle and Calves	1,505	1,560	1,470	1,460	1,300
Number of Cattle Operations 1/	24,000	24,000	23,000	23,000	2/

1/ Any place having one or more head on hand at any time during the year.
2/ Available February 11, 1988.

Balance Sheet

Year	Inventory January 1	Calf Crop	Inship-ments	Marketings 1/		Farm Slaughter 2/	Deaths		Inventory Following January 1
				Cattle	Calves		Cattle	Calves	
				1,000 Head					
1982	1,510	550	270	585	118	45	27	50	1,505
1983	1,505	560	168	462	94	40	27	50	1,560
1984	1,560	550	200	595	130	38	30	47	1,470
1985	1,470	550	172	511	99	38	30	55	1,460
1986	1,460	540	167	635	117	37	28	50	1,300

1/ Excluded interfarm sales within the State.
2/ Excluded custom slaughter for farmers at commercial establishments.

Production and Income

Year	Production 1/	Marketings 2/	Average Price Per Cwt.		Value of Production	Cash Receipts	Value of Home Consumption	Gross Income
	1,000 Pounds		Dollars		1,000 Dollars			
			Cattle	Calves				
1982	542,690	683,000	61.80	53.80	335,024	419,858	29,876	449,734
1983	525,810	547,370	60.60	55.20	317,284	330,515	26,360	356,875
1984	552,300	708,470	61.70	55.10	339,578	435,131	25,953	461,084
1985	524,720	607,670	54.90	53.70	287,784	333,374	25,740	359,114
1986	553,260	737,980	53.20	52.90	294,337	392,552	24,437	416,989

1/ Adjustments made for changes in inventory and for inshipments.
2/ Excludes custom slaughter for use on farms where produced and interfarm sales within the State.

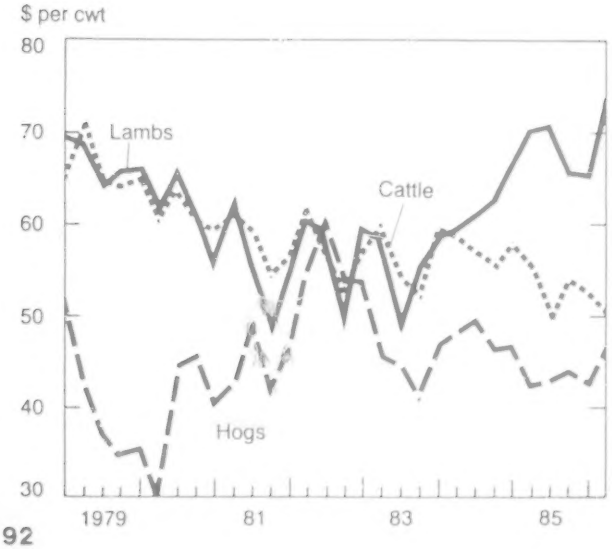
Commercial Slaughter

Year and Month	Washington			United States		
	Head	Liveweight		Head	Liveweight	
		Per Head	Total		Per Head	Total
	1,000	Pounds	1,000 Pounds	1,000	Pounds	1,000 Pounds
1986 January	92.8	1,152	106,871	3,330.7	1,100	3,663,135
February	77.1	1,166	89,872	2,714.7	1,107	3,005,894
March	70.3	1,159	81,545	2,838.8	1,110	3,150,871
April	80.5	1,148	92,404	3,214.3	1,110	3,567,340
May	73.0	1,140	83,281	3,234.3	1,102	3,565,197
June	82.4	1,127	92,852	3,122.9	1,094	3,416,070
July	77.2	1,133	87,395	3,321.9	1,091	3,625,276
August	75.4	1,130	85,196	3,202.6	1,091	3,494,989
September	77.9	1,136	88,513	3,128.0	1,102	3,447,265
October	77.4	1,147	88,815	3,285.4	1,103	3,622,802
November	68.0	1,155	78,486	2,819.1	1,097	3,091,399
December	76.4	1,136	86,741	3,075.6	1,099	3,381,379
1982.....	847.8	1,126	954,683	35,843.3	1,064	38,128,381
1983.....	931.6	1,153	1,073,891	36,648.9	1,071	39,247,590
1984.....	991.8	1,149	1,139,337	37,581.8	1,067	40,084,665
1985.....	936.6	1,169	1,095,063	36,292.7	1,098	39,841,063
1986.....	928.2	1,144	1,061,971	37,288.3	1,100	41,031,617

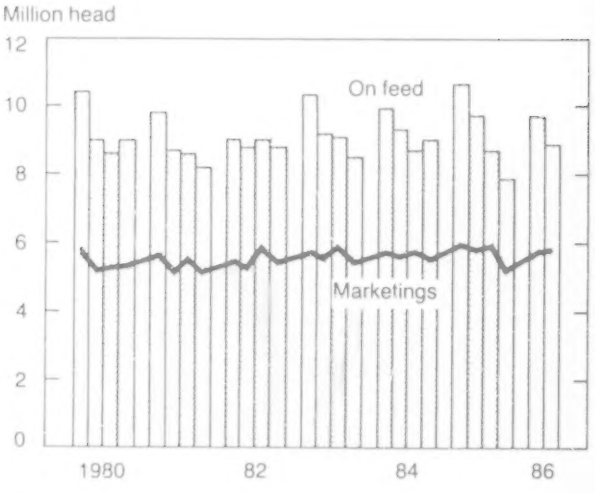
Cattle on Feed, Placements and Marketings

Year/ Quarter	Cattle & Calves on Feed				Previous Quarter		
	Total All	Steers	Heifers	Cows & Others	Placements	Market-ings	Other Disap-
	1,000 Head						
1982							
Jan.	160	115	43	2	95	119	4
Apr.	167	119	48	0	130	119	1
Jul.	170	117	53	0	115	111	1
Oct.	164	121	43	0	109	114	4
1983							
Jan.	167	125	42	0	119	112	5
Apr.	150	108	42	0	103	115	2
Jul.	173	121	52	0	129	104	1
Oct.	162	122	40	0	106	116	5
1984							
Jan.	183	134	49	0	140	114	5
Apr.	188	133	51	4	126	116	1
Jul.	185	128	54	3	122	124	1
Oct.	221	150	71	0	170	133	2
1985							
Jan.	203	146	57	0	124	140	2
Apr.	158	104	54	0	131	171	5
Jul.	154	98	53	3	111	109	6
Oct.	204	135	69	0	150	98	2
1986							
Jan.	198	125	73	0	115	118	3
Apr.	161	96	65	0	108	143	2
Jul.	144	86	57	1	108	122	3
Oct.	166	102	64	0	99	75	2
1987							
Jan.	138	94	44	0	91	116	3
Apr.	138	87	51	0	98	96	2
Jul.	151	99	51	0	102	87	2

Livestock Prices Received by Farmers



Cattle on Feed and Marketings

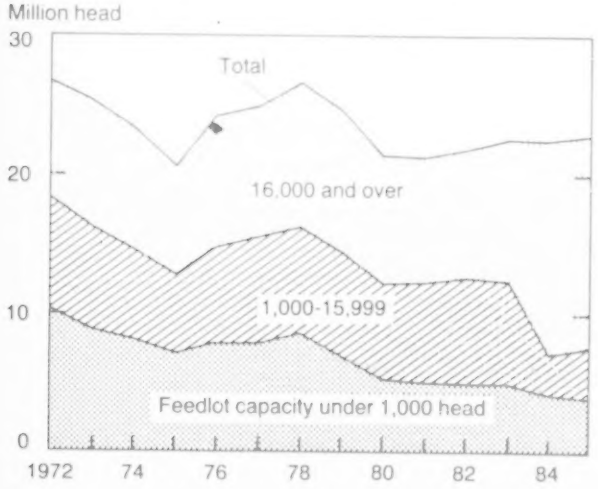


Quarterly data for 13 States.

Cattle on Feed by Weight Groups

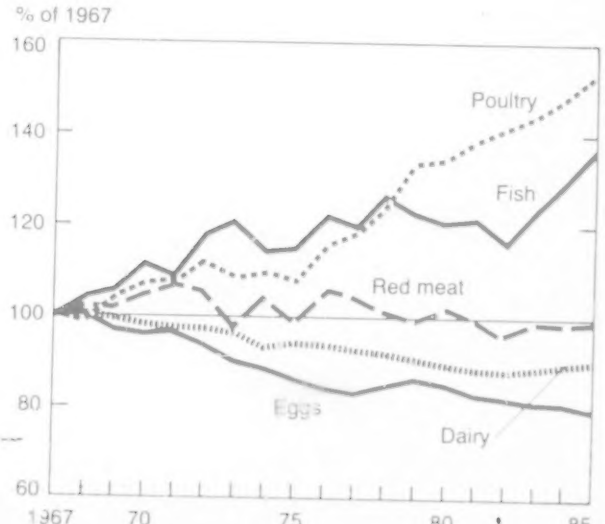
Year/ Quarter	Steers and Steer Calves					Heifers and Heifer Calves			
	Under 500 Lbs	500-699 Lbs	700-899 Lbs	900-1,099 Lbs	1,100+ Lbs	Under 500 Lbs	500-699 Lbs	700-899 Lbs	900+ Lbs
	1,000 Head								
1982									
Jan.	0	6	24	56	29	0	5	19	19
Apr.	0	6	48	45	20	0	9	29	10
Jul.	0	7	34	63	13	0	7	27	19
Oct.	0	6	31	57	27	0	6	16	21
1983									
Jan.	1	6	29	54	35	1	6	19	16
Apr.	0	1	30	51	26	1	6	17	18
Jul.	1	1	40	66	13	1	4	21	26
Oct.	0	1	36	55	30	0	3	21	16
1984									
Jan.	0	7	39	49	39	0	4	23	22
Apr.	0	3	46	56	28	0	6	26	19
Jul.	0	1	41	40	46	0	8	21	25
Oct.	0	6	33	62	49	0	3	30	38
1985									
Jan.	0	2	21	74	49	0	2	22	33
Apr.	0	3	33	45	23	0	4	27	23
Jul.	0	5	44	33	16	2	4	25	22
Oct.	0	2	43	66	24	0	2	29	38
1986									
Jan.	0	5	25	59	36	0	6	22	45
Apr.	0	2	25	48	21	0	5	30	30
Jul.	0	3	21	43	19	0	2	20	35
Oct.	0	3	25	45	29	0	10	31	23
1987									
Jan.	0	13	32	37	12	0	7	23	14
Apr.	0	6	37	36	8	0	13	27	11
Jul.	0	3	32	53	11	0	4	30	18

Fed Cattle Marketed by Feedlot Capacity



Data are for 13 States.

Per Capital Consumption of Selected Animal Products



DAIRY

General Information

Washington continued to lead the nation in milk per cow with an average of 17,745 pounds in 1986. This was a 5 percent increase in milk per cow production from 1985. Total milk production for the State in 1986 was 3,762 million pounds, less than 1 percent higher than the 1985 total.

From January until May 1986, milk production exceeded 1985 production. Then in June, production levels were equal, and in July through December 1986, production fell below 1985 levels. The reason for the reduced monthly milk output was the implementation of the dairy buyout program. Milk cow numbers began dropping in April when the program started and continued to drop every month until December. The year ended with milk cow numbers at 201 thousand head, a 10 percent drop from December 1985.

Milk Production, Utilization, Marketing and Value

PRODUCTION AND USE	Unit	1982	1983	1984	1985	1986
Production And Utilization						
Production of milk:						
Total milk produced on farms	Mil. Lbs.	3,222	3,482	3,466	3,750	3,762
Milkfat produced	Mil. Lbs.	119	127	127	140	139
Percentage of milkfat	Percent	3.69	3.65	3.66	3.73	3.70
Utilization:						
Milk Marketed by Producers:						
Sold to plants and dealers as whole milk 1/	Mil. Lbs.	3,070	3,320	3,299	3,582	3,582
Sold directly to consumers	Mil. Lbs.	126	135	142	149	155
Milk used where produced						
Fed to calves	Mil. Lbs.	23	23	23	16	21
Used by farm household	Mil. Lbs.	3	4	4	3	4
Marketings						
Milk Marketed by Producers:						
Sold to plants and dealers						
Whole milk sold 1/	Mil. Lbs.	3,070	3,320	3,299	3,582	3,582
Price per Cwt.	Dollars	13.30	13.30	13.10	12.40	12.10
Cash receipts	1,000 Dol.	408,310	441,560	432,169	444,168	433,422
Sold Directly to Consumers						
Quantity	1,000 Qts.	58,605	62,791	66,047	69,302	72,093
Price per quart	Cents	48	49	47	46	45
Cash receipts	1,000 Dol.	28,130	30,767	31,042	31,879	32,442
Total Marketing						
Milk Utilized	Mil. Lbs.	3,196	3,455	3,441	3,731	3,737
Price Per Cwt. of milk	Dollars	13.66	13.67	13.46	12.76	12.47
Price per pound milkfat	Dollars	3.70	3.75	3.68	3.42	3.37
Total cash receipts	1,000 Dol.	436,440	472,326	463,211	476,047	465,864
Farm Use						
Value of milk used where produced 2/	1,000 Dol.	3,685	3,692	3,634	2,424	3,116
Total Value of Milk Produced	1,000 Dol.	440,125	476,019	466,845	478,471	468,980
Number of operations with milk cows	Number	4,000	3,600	3,600	3,400	3,400

1/ Includes the equivalent amounts of milk for cream sold to plants and dealers.
2/ Includes value of milk fed to calves and milk used by farm household.

MILK COWS AND MILK PRODUCTION

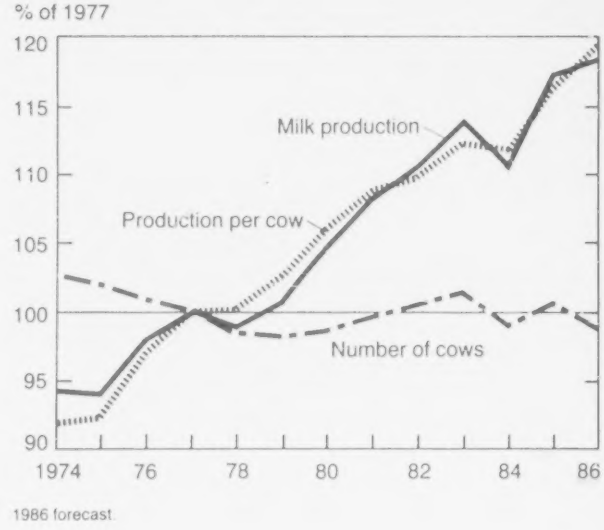
The value of production for milk in 1986, at $469 million, was 2 percent lower than in 1985. However, milk was still the second highest valued agricultural commodity in Washington. In 1985, milk surpassed wheat as the number one commodity, and in 1986 it was second only to apples.

The number of farm operations in the State with milk cows stayed at the same level as 1985. However, the number of large and small sized dairy herds changed. The number of farm operations with more than 50 milk cows decreased and the number of operations with less than 30 milk cows increased. Many of the operations with less than 30 milk cows were mainly for family use only.

Milk Cows on Farms

Month	1982 1/	1983	1984	1985	1986
	1,000 Head				
January	208	213	213	211	223
February	209	213	213	213	223
March	210	215	213	216	223
April		217	213	219	219
May		218	213	222	217
June	212	217	211	225	214
July		218	212	228	213
August		217	213	229	209
September	213	215	213	227	203
October		215	212	225	200
November		215	211	224	199
December	213	214	211	223	201
Average	212	216	212	222	212

Milk Production, Number of Cows, and Milk per Cow



1986 forecast.

Milk Production per Cow

Month	1982 1/	1983	1984	1985	1986
	Pounds				
January	1,210	1,300	1,330	1,380	1,440
February	1,120	1,200	1,250	1,250	1,320
March	1,260	1,350	1,350	1,410	1,485
April		1,340	1,350	1,415	1,490
May		1,420	1,430	1,495	1,550
June	3,910	1,390	1,400	1,435	1,510
July		1,430	1,450	1,470	1,550
August		1,410	1,420	1,460	1,530
September	3,960	1,340	1,340	1,390	1,475
October		1,350	1,360	1,425	1,500
November		1,280	1,300	1,355	1,440
December	3,750	1,330	1,360	1,405	1,470
Annual	15,198	16,120	16,358	16,892	17,745

Total Milk Production

1982 1/	1983	1984	1985	1986
Million Pounds				
252	277	283	291	321
234	256	266	266	294
265	290	288	305	331
	291	288	310	326
	310	305	332	336
829	302	295	323	323
	312	307	335	330
	306	302	334	320
843	288	285	316	299
	290	288	321	300
	275	274	304	287
799	285	287	313	295
3,222	3,482	3,468	3,750	3,762

1/ Quarterly estimates April-December, 1982.

DAIRY PRODUCTS

There are 26 plants in Washington that manufacture one or more dairy products. These plants are invaluable to the State's dairy farmers, and also provide employment for hundreds of workers.

Butter was the largest single item manufactured in the State at 86.1 million pounds, up 2 percent from 1985. Washington ranks fourth in the nation in butter production trailing Wisconsin, California, and Minnesota. Cheese, excluding cottage cheese, was the next largest dairy item in Washington at 57.2 million pounds. Washington ranks fifteenth in the nation in cheese production. Other dairy products significant to the State are cottage cheese curd, creamed cottage cheese, low fat cottage cheese, ice cream, ice milk, and milk sherbet.

Butter Production

Month	1982 1/	1983	1984	1985	1986
	1,000 Pounds				
January	4,324	5,891	6,177	6,756	8,503
February	3,809	5,230	6,329	6,013	7,361
March	4,197	5,415	5,497	6,719	7,866
April		5,185	6,337	7,022	7,837
May		5,553	6,293	7,041	8,395
June	13,605	5,305	5,916	7,010	7,173
July		5,606	5,814	6,752	7,387
August		5,246	6,193	7,372	6,445
September	14,890	4,743	5,498	7,272	6,302
October		5,383	5,667	7,664	6,674
November		5,635	5,563	7,076	5,367
December	15,457	5,503	5,608	7,799	6,757
Annual	56,282	64,695	70,892	84,496	86,067

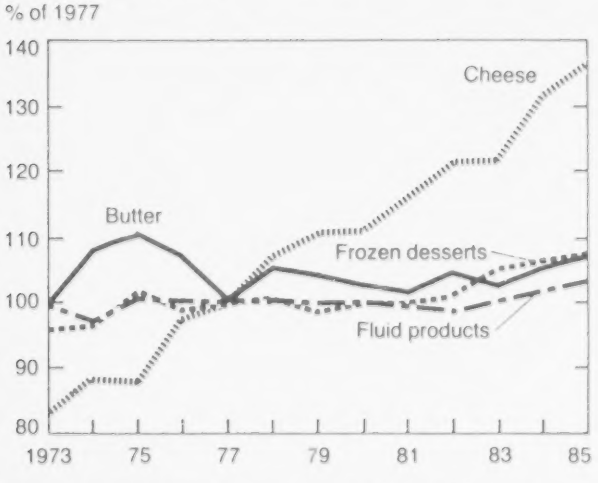
1/ Quarterly estimates April-December 1982.

Ice Cream Production

Month	1982 1/	1983	1984	1985	1986
	1,000 Gallons				
January	927	1,169	1,085	1,362	1,218
February	1,139	1,025	1,147	1,203	1,353
March	1,160	1,412	1,469	1,529	1,490
April		1,439	1,479	1,449	1,569
May		1,418	1,627	1,692	1,580
June	4,156	1,666	1,753	1,868	1,920
July		1,760	1,842	2,041	1,665
August		1,538	1,658	1,545	1,721
September	4,412	1,418	1,382	1,343	1,577
October		1,257	1,399	1,374	1,438
November		1,076	1,336	1,309	1,696
December	3,724	1,046	1,323	1,438	1,330
Annual	15,518	16,224	17,500	18,153	18,557

1/ Quarterly estimates April-December 1982.

Dairy Product Sales



Fluid products include cream and specialty items. Cheese excludes cottage cheese.

Ice Milk Production

Month	1982 1/	1983	1984	1985	1986
	1,000 Gallons				
Jan.	728	886	771	587	447
Feb.	531	514	531	478	457
Mar.	523	675	609	591	615
Apr.		730	665	682	662
May		783	660	822	747
Jun.	2,178	861	621	787	767
Jul.		828	783	915	763
Aug.		788	824	830	765
Sep.	2,285	775	646	657	648
Oct.		603	551	552	600
Nov.		473	576	414	500
Dec.	2,213	599	567	500	526
Annual	8,458	8,515	7,804	7,815	7,497

1/ Quarterly estimates Apr.-Dec. 1982.

American Cheese Production

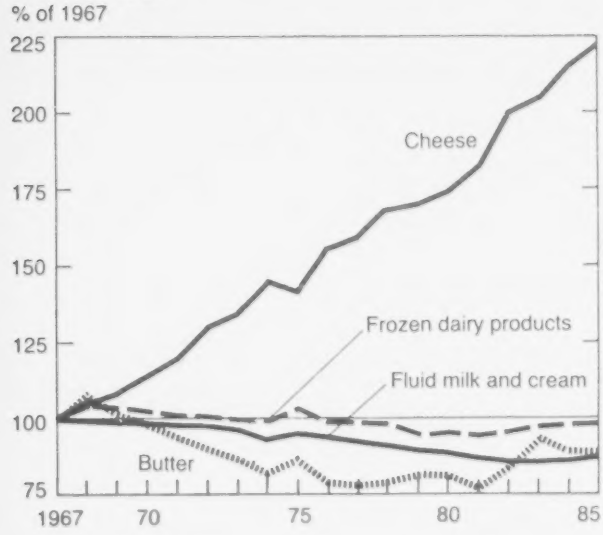
Month	1982 1/	1983	1984	1985	1986
	1,000 Pounds				
January	2,560	2,985	3,113	2,615	2,768
February	2,476	2,663	2,829	2,136	2,564
March	2,333	3,366	2,331	2,763	2,102
April		3,915	2,496	1,540	2,822
May		4,303	2,962	1,732	2,917
June	9,253	4,171	2,947	1,750	3,130
July		4,254	3,428	3,569	3,260
August		4,052	2,417	3,097	3,133
September	9,667	3,728	1,422	2,790	2,732
October		3,715	1,426	3,089	2,869
November		2,654	1,216	2,856	2,421
December	9,161	2,415	1,500	2,815	2,847
Annual	35,450	42,221	28,087	30,752	33,565

1/ Quarterly estimates April-December 1982.

Italian Cheese Production

1982 1/	1983	1984	1985	1986
1,000 Pounds				
786	1,344	1,505	1,398	1,756
1,001	1,331	1,438	1,506	1,585
1,060	1,543	1,722	1,669	1,969
1,401	1,405	1,598	1,803	1,878
1,284	1,536	1,629	1,827	1,900
3,235	1,453	1,667	1,828	1,905
1,335	1,280	1,482	1,871	1,931
1,343	1,521	1,463	1,832	2,010
3,928	1,567	1,509	1,675	1,922
1,255	1,659	1,664	1,829	2,129
1,368	1,617	1,784	1,605	2,091
4,246	1,534	1,657	1,871	2,193
22,242	17,790	19,118	20,714	23,269

Per Capita Consumption of Selected Dairy Products



Total Cheese Production

Month	1982 1/	1983	1984	1985 2/	1986
	1,000 Pounds				
Jan.	3,346	4,329	4,618	4,046	4,545
Feb.	3,477	3,994	4,267	3,661	4,168
Mar.	3,393	4,909	4,053	4,466	4,087
Apr.		5,320	4,094	3,358	4,733
May		5,839	4,591	3,574	4,841
Jun.	12,488	5,624	4,614	3,600	5,049
Jul.		5,534	4,910	5,505	5,216
Aug.		5,573	3,880	4,996	5,166
Sep.	13,595	5,295	2,931	4,513	4,704
Oct.		5,374	3,090	4,943	5,029
Nov.		4,271	3,000	4,486	4,555
Dec.	13,407	3,949	3,157	4,703	5,082
Annual	49,706	60,011	47,205	51,851	57,175

1/ Quarterly estimates Apr.-Dec. 1982.
2/ Includes Gouda and Feta cheeses.

Creamed Cottage Cheese Production

Month	1982 1/	1983	1984	1985	1986
	1,000 Pounds				
Jan.	1,782	2,282	1,961	2,114	1,962
Feb.	2,046	1,087	2,101	1,998	1,692
Mar.	1,954	2,523	2,074	2,064	1,841
Apr.		2,411	2,045	2,118	1,890
May		2,318	2,255	2,301	2,089
Jun.	6,931	2,257	2,026	2,138	1,889
Jul.		2,188	2,047	2,187	1,956
Aug.		2,134	2,184	2,075	1,797
Sep.	6,672	2,062	1,844	1,914	1,983
Oct.		2,019	2,050	2,115	2,039
Nov.		1,945	1,986	1,841	1,751
Dec.	6,341	2,005	1,787	1,807	1,750
Annual	25,726	25,231	24,360	24,672	22,639

1/ Quarterly estimates Apr.-Dec. 1982.

Cottage Cheese Curd Production

Month	1982 1/	1983	1984	1985	1986
	1,000 Pounds				
Jan.	1,755	1,716	1,484	1,762	1,673
Feb.	1,669	1,617	1,578	1,556	1,496
Mar.	1,795	1,839	1,653	1,750	1,668
Apr.		1,738	1,623	1,695	1,693
May		1,743	1,673	1,861	1,763
Jun.	5,445	1,762	1,491	1,672	1,666
Jul.		1,660	1,612	1,731	1,723
Aug.		1,568	1,725	1,641	1,595
Sep.	5,048	1,548	1,477	1,489	1,603
Oct.		1,529	1,621	1,710	1,575
Nov.		1,504	1,578	1,483	1,458
Dec.	4,762	1,522	1,420	1,423	1,419
Annual	20,474	19,746	18,935	19,773	19,332

1/ Quarterly estimates Apr.-Dec. 1982.

HOGS

The inventory of all hogs on Washington farms December 1, 1986, was estimated at 50,000 head, a 2 percent decrease from the previous year's level. Breeding stock comprised 18 percent of the inventory while market hogs destined for slaughter made up the remaining 82 percent of the inventory.

Washington sows averaged 7.8 pigs per litter during 1986, producing a total pig crop of 70,000 head. The current pig crop produced 8,000 fewer piglets than the previous year.

Value of production for hogs in 1986, at $7.2 million, was only slightly above 1985. The average annual price received for hogs in 1986 was estimated at $48.00 per Cwt., $4.50 above the previous year's $43.50.

Inventory on Farms by Class, December 1

Class	1982	1983	1984	1985	1986
	1,000 Head				
Hogs					
Breeding Hogs	7	6	5	6	9
Market Hogs	44	47	40	45	41
All Hogs	51	53	45	51	50
Number of Hog Operations 1/	2,800	3,600	3,600	3,300	3,300

1/ Any place having one or more head on hand at any time during the year.

Pig Crop

Year	December-May			June-November		
	Sows Farrowed	Pigs Per Litter	Pig Crop	Sows Farrowed	Pigs Per Litter	Pig Crop
	1,000 Head	Head	1,000 Head	1,000 Head	Head	1,000 Head
1982	4.9	7.4	36	5.2	8.1	42
1983	6.0	7.0	42	5.5	8.2	45
1984	6.0	8.3	50	4.4	8.3	37
1985	5.0	7.5	38	5.0	8.0	40
1986	4.0	7.7	31	5.0	7.8	39

Balance Sheet

Year	Beginning Inventory Prev. Yr.	Pigs Saved		Inshipment	Marketings 1/	Farm Slaughter 2/	Deaths	Inventory December 1
		Dec.- May	Jun.- Nov.					
	1,000 Head							
1982	60	36	42	0	77	6	4	51
1983	51	42	45	0	74	6	5	53
1984	53	50	37	0	80	7	8	45
1985	45	38	40	0	56	11	5	51
1986	51	31	39	0	61	4	6	50

1/ Excludes interfarm sales within the State.
2/ Excludes custom slaughter for farmers at commercial establishments.

Production and Income

Year	Production 1/	Marketings 2/	Average Price Per Cwt.	Value of Production	Cash Receipts	Value of Home Consumption	Gross Income
	1,000 Pounds		Dollars	1,000 Dollars			
1982	17,285	17,090	54.60	9,477	9,370	1,057	10,427
1983	19,555	16,487	49.40	9,660	8,145	1,083	9,228
1984	18,578	18,514	48.40	8,992	8,961	867	9,828
1985	16,605	12,756	43.50	7,223	5,549	1,224	6,773
1986	15,058	11,265	48.00	7,227	5,407	1,886	7,293

1/ Adjustments made for changes in inventory and for inshipments.
2/ Excludes custom slaughter for use on farms where produced and interfarm sales within the State.

Commercial Slaughter

Year and Month	Washington			United States		
	Head	Liveweight		Head	Liveweight	
		Per Head	Total		Per Head	Total
	1,000	Pounds	1,000 Pounds	1,000	Pounds	1,000 Pounds
1986 January	2.8	232	651	7,185.0	246	1,766,248
February	2.5	253	622	6,336.9	243	1,541,500
March	2.8	268	748	6,856.7	244	1,670,335
April	2.7	252	691	7,352.4	245	1,802,318
May	2.3	239	538	6,888.4	245	1,690,845
June	2.4	234	561	6,075.5	245	1,488,534
July	2.4	233	568	6,097.8	245	1,490,825
August	2.3	232	531	5,972.0	243	1,452,030
September	2.6	232	599	6,503.5	245	1,592,996
October	2.2	238	533	7,279.1	248	1,802,188
November	2.1	233	478	6,254.8	250	1,560,882
December	2.4	233	568	6,796.0	251	1,705,960
1982.....	377.9	233	88,016	82,189.7	243	19,932,217
1983.....	338.1	234	79,008	87,584.3	243	21,284,616
1984.....	95.7	234	22,336	85,168.1	243	20,727,868
1985.....	39.3	235	9,247	84,491.9	245	20,666,685
1986.....	29.5	240	7,088	79,598.2	246	19,564,663

SHEEP AND LAMBS

The sheep and lamb inventory for January 1, 1987, totaled 59,000 head, 2 percent above the previous year's record low level. The 1986 lamb crop of 58,000 head increased five percent from the 1985 lamb crop. The value of production for sheep and lambs marketed totaled 3.4 million dollars.

Wool production during 1986 was 533,000 pounds, down 1 percent from 1985. The 1986 wool crop is the lowest of record dating back to 1909. Sheep and lambs shorn totaled 66,000 head, a decline of five percent from 1985. This is the smallest number of sheep shorn in Washington since records were established. Average fleece weights, at 8.1 pounds, continue to decline, down four tenths of a pound from 1985. Total value of shorn wool, however, increased due to a rise in the wool prices.

Inventory on Farms by Class, January 1

Class	1983	1984	1985	1986	1987
			1,000 Head		
Sheep and Lambs					
Ewe Lambs	11.0	9.0	7.0	9.0	9.5
Wether and Ram Lambs	5.0	5.0	3.0	3.0	3.5
Ewes, 1 year plus	46.0	45.0	41.0	44.0	44.0
Rams and Wethers, 1 year plus	3.0	3.0	2.0	2.0	2.0
All Sheep and Lambs	65.0	62.0	53.0	58.0	59.0
Number of Sheep Operations 1/	2,200	2,400	2,200	2,200	2/

1/ Any place having one or more head on hand at any time during the year.
2/ Available January 29, 1988.

Balance Sheet

Year	Inventory January 1	Lamb Crop	Inshipments	Marketings 1/		Farm Slaughter 2/	Deaths		Inventory Following January 1
				Sheep	Lambs		Sheep	Lambs	
					1,000 Head				
1982	83	66	1	26	41	4	7	7	65
1983	65	58	3	10	39	3	6	6	62
1984	62	50	2	15	36	3	3	4	53
1985	53	55	2	3	39	3	3	4	58
1986	58	58	7	7	45	4	4	4	59

1/ Excluded interfarm sales within the State.
2/ Excluded custom slaughter for farmers at commercial establishments.

Production and Income

Year	Production 1/	Marketings 2/	Average Price Per Cwt.		Value of Production	Cash Receipts	Value of Home Consumption	Gross Income
			Sheep	Lambs				
	1,000 Pounds		Dollars			1,000 Dollars		
1982	5,519	7,358	12.10	53.00	2,296	2,690	288	2,978
1983	5,195	5,380	11.30	49.50	2,143	2,238	174	2,412
1984	4,670	5,672	12.90	56.40	2,183	2,455	178	2,633
1985	5,515	4,571	15.20	66.70	3,200	2,893	232	3,125
1986	5,871	5,713	14.90	65.60	3,376	3,371	396	3,767

1/ Adjustments made for changes in inventory and for inshipments.
2/ Excludes custom slaughter for use on farms where produced and interfarm sales within the State.

Commercial Slaughter

Year and Month	Washington			United States		
	Head	Liveweight		Head	Liveweight	
		Per Head	Total		Per Head	Total
	1,000	Pounds	1,000 Pounds	1,000	Pounds	1,000 Pounds
1986 January	13.0	117	1,517	518.0	118	61,307
February	11.6	119	1,372	451.6	119	53,591
March	13.9	118	1,636	540.4	117	63,169
April	12.4	125	1,556	492.5	118	57,907
May	11.5	125	1,443	431.6	116	50,199
June	11.3	117	1,320	419.5	115	48,271
July	12.4	115	1,429	449.5	114	51,129
August	12.5	116	1,448	443.6	114	50,503
September	13.8	119	1,643	510.8	116	59,275
October	17.8	121	2,157	510.5	118	60,461
November	10.9	118	1,296	412.8	119	49,030
December	14.3	120	1,708	454.3	121	55,051
1982.....	183.3	113	20,732	6,448.7	111	714,766
1983.....	162.2	110	17,874	6,619.4	112	741,155
1984.....	165.7	112	18,643	6,759.0	111	749,559
1985.....	158.0	116	18,272	6,165.2	114	702,448
1986.....	155.4	119	18,524	5,635.0	117	659,893

Wool Production and Income

Year	Number Sheep Shorn	Weight Per Fleece	Wool Production	Price Per Pound	Value Of Production
	1,000 Head	Pounds	1,000 Pounds	Cents	1,000 Dollars
1982	70	9.0	630	62	391
1983	65	9.0	585	49	287
1984	64	8.6	550	74	407
1985	63	8.5	536	52	279
1986	66	8.1	533	60	320

POULTRY

Inventory of all chickens on farms on December 1, 1986, was 5.7 million birds, a decrease of 14 percent from the previous year. Hens and pullets of laying age accounted for 89 percent of the total chicken inventory. The only class of chickens to show an increase when compared to a year earlier was young pullets of laying age. Egg production in Washington dipped to 1,295 million eggs during 1986. This is 4 percent fewer eggs than in 1985. Washington ranked 17th in egg production while California, with 7,850 million eggs, continued to be the leading state.

Broiler production was a $35 million enterprise to Washington farmers. Growers produced 113 million pounds and received an average price of 31 cents per pound. Production took a hefty 12 percent increease responding to the consumer demands for white meat.

Inventory on Farms by Class, December 1

Class	1982	1983	1984	1985	1986
	1,000 Birds				
Hens and Pullets of Laying Age:					
Hens (1 year and older)	3,344	2,796	3,286	3,074	2,744
Pullets of laying age	1,906	2,373	2,274	2,190	2,357
Total	5,250	5,169	5,560	5,264	5,101
Pullets, 3 months plus	274	239	230	590	220
Pullets, less than 3 months	652	669	290	720	352
Other Chickens	37	55	50	50	27
All Chickens (excluding broilers)	6,213	6,132	6,130	6,624	5,700
Number of Chickens Operations 1/	6,400	6,200	6,200	6,200	2/

1/ Any place having one or more head on hand at any time during the year.
2/ Estimate discontinued.

Average Number of Layers

Month 2/	1982 1/	1983	1984	1985	1986
	1,000 Birds				
December		5,166	5,171	5,498	5,166
January		5,040	5,106	5,414	5,082
February	5,308	5,071	5,064	5,409	5,091
March		5,051	5,125	5,513	5,143
April		4,929	5,139	5,516	5,174
May	5,332	4,866	5,114	5,373	5,028
June		4,853	5,188	5,331	4,853
July		4,894	5,184	5,331	4,946
August	5,300	4,950	5,226	5,251	5,063
September		5,044	5,318	5,130	5,023
October		5,152	5,270	5,043	5,044
November	5,294	5,186	5,406	5,140	5,088
Annual Average	5,309	5,017	5,193	5,329	5,059
State Total	-	-	-	-	-

Egg Production

Month 2/	1982 1/	1983	1984	1985	1986
	Million				
December		112	113	118	115
January		108	109	118	112
February	329	93	101	105	96
March		101	110	122	106
April		98	109	118	105
May	329	103	110	110	108
June		101	106	106	105
July		104	107	117	110
August	333	103	108	115	112
September		100	110	108	107
October		104	113	111	110
November	343	105	110	107	109
Annual Average	-	-	-	-	-
State Total	1,334	1,232	1,306	1,355	1,295

1/ Quarterly Estimates.
2/ December 1 previous year to November 30.
- Not Applicable.

Chicken Production and Income 1/ 2/

Year	Number Sold	Pounds Sold	Price Per Pound	Value of Sales
	1,000 Birds	1,000 Pounds	Cents	1,000 Dollars
1982	5,400	20,098	6.0	1,221
1983	4,800	15,678	7.0	1,113
1984	4,700	15,088	7.0	1,071
1985	3,000	11,700	10.0	1,170
1986	3,400	12,920	8.0	1,034

1/ Excluding broilers.
2/ 12 month period December 1, previous year, through November 30.

Egg Production and Income 2/

Eggs Produced	Price Per Dozen	Value of Production
Millions	Cents	1,000 Dollars
1,334	54.2	60,253
1,232	56.6	58,110
1,306	62.3	67,803
1,355	48.8	55,103
1,295	51.5	55,577

Broiler Production and Income

Year	Number Produced	Pounds Produced	Price Per Pound	Gross Income 1/
	1,000 Birds	1,000 Pounds	Cents	1,000 Dollars
1982	20,500	88,150	32.5	28,649
1983	20,500	90,200	33.0	29,766
1984	21,700	95,480	37.5	35,805
1985	23,000	101,200	32.5	32,890
1986	25,100	112,950	31.0	35,015

1/ Includes value of home consumption.

Broiler Commercial Slaughter

Year	Washington			United States		
	Number Slaughtered	Average Liveweight	Certified Pounds 1/	Number Slaughtered	Average Liveweight	Certified Pounds 1/
	1,000 Head	Pounds	1,000 Pounds	1,000 Head	Pounds	1,000 Pounds
1982	17,239	4.29	54,664	4,068,116	4.04	12,039,023
1983	19,114	4.37	62,002	4,132,538	4.08	12,388,980
1984	20,933	4.39	68,116	4,272,328	4.17	12,998,613
1985	22,586	4.39	73,723	4,439,051	4.19	13,569,794
1986	24,718	4.45	82,130	4,620,641	4.24	14,224,598

1/ Ready to cook weight.

MINK

Washington was the 6th largest mink pelt producing state in 1986 with 217,300 pelts produced, or 5.3 percent of the nation's total. The standard color class was the most popular with 109,200 pelts produced, or 50.3 percent of the State's total. Demi-buff was second at 21.7 percent and gunmetal was third at 19.7 percent. The State's forty-two mink ranches bred 57,200 females to produce kits in 1987.

At the county level, Snohomish County led the way with 72,800 pelts produced. Kittitas County was second and Pierce County was third with 46,200 pelts and 42,700 pelts, respectively. Together, these three counties produced nearly 74 percent of Washington's total pelts in 1986 and they have bred about the same percentage of the State's total females to produce kits in 1987.

Mink by County, 1985

County	Pelts From 1985 Crop	Females Bred For 1986
King	15,800	3,400
Kittitas	46,800	10,200
Pierce	54,000	12,600
Snohomish	61,200	16,900
Thurston	22,900	6,100
Whatcom	17,500	4,700
Other 1/	7,800	1,100
State Total	226,000	55,000

1/ Clark, Lewis, Pacific.

Mink by County, 1986

County	Pelts From 1986 Crop	Females Bred For 1987
King	10,500	3,400
Kittitas	46,200	10,300
Pierce	42,700	11,900
Snohomish	72,800	19,300
Thurston	21,700	6,000
Whatcom	19,300	5,200
Other 1/	4,100	1,100
State Total	217,300	57,200

1/ Lewis, Pacific.

Mink Pelts and Females Bred to Produce Kits 1/

Color	Pelts Produced						Females Bred to Produce Kits					
	1980	1982	1983	1984	1985	1986	1981	1983	1984	1985	1986	1987
	1,000						1,000					
Standard	97.9	86.8	86.7	100.2	109.6	109.2	28.3	20.8	23.9	25.3	25.3	28.3
Ranch Wild	22.0	18.6	12.7	7.1	50.1	5.6	9.5	4.4	2.7	9.4	3.6	1.7
Demi-buff	22.3	38.6	45.5	53.2	18.7	47.2	3.5	10.8	11.5	4.9	11.6	11.7
Gunmetal	17.6	20.6	30.6	30.1	33.5	42.7	5.3	7.0	8.3	9.2	10.9	12.7
Mahogany	3/	3/	3/	3/	3.2	3.1	3/	3/	3/	3/	.8	.6
Pastel	8.7	9.6	7.2	5.2	5.2	4.9	3.8	2.0	1.4	1.1	1.3	1.1
Sapphire	6.3	4.5	5.5	7.8	3.7	2/	1.8	2.0	1.8	1.9	2/	.8
Violet Type	3.0	5.0	3.9	5.9	2/	2/	1.3	1.1	1.2	.4	2/	2/
Other	2.1	5.8	5.9	7.0	2.0	4.6	.5	1.4	1.2	.3	1.5	.3
Total	180.0	189.5	198.0	216.5	226.0	217.3	54.0	49.5	52.0	52.5	55.0	57.2
Number of Operations	45	37	36	37	45	42						

1/ Data for 1981 pelts produced and 1982 females bred not available.
2/ Included in Other.
3/ Mahogany color not classified.

BEES AND HONEY

Honey production and price estimates were reinstated for 1986 after being discontinued in 1982. Production in 1986, at 3,600,000 pounds, was up 18 percent from the 1981 estimate. Colonies of bees declined to 75,000 colonies - the lowest level since 1949 - while honey production per colony reached a respectable 48 pounds. The value per pound was estimated at 47 cents, 10 cents below 1981. This was the lowest price since 1976 when it was 46 cents per pound.

It is a common practice for larger apiaries in Washington to transport their bees to surrounding states and California to collect honey. A few operators in other states also bring their bees into Washington. Production estimates are only for honey produced in Washington.

Number of Colonies, Production, Average Price, and Value

Year	Number Of Colonies	Dec. 15 Stocks 2/	Honey			
			Production		Value	
			Per Colony	Total	Per Pound	Total
	1,000	1,000 Pounds	Pounds	1,000 Pounds	Cents	1,000 Dollars
1974	98	635	98	3,528	49.9	1,760
1975	98	446	35	3,430	47.7	1,636
1976	95	499	25	2,375	46.0	1,093
1977	89	819	46	4,094	53.0	2,170
1978	90	630	35	3,150	54.9	1,729
1979	87	364	38	3,306	54.0	1,785
1980	90	454	42	3,780	57.0	2,155
1981	87	487	35	3,045	57.0	1,736
1982-85 1/						
1986	75	360	48	3,600	47.0	1,692

1/ Estimates not made 1982-85. 2/ Stocks in hands of producers.

Livestock Inventory by County 1/

County	Cattle & Calves		Cows that have calved				Sheep and Lambs	
			Beef		Milk			
	1986	1987	1986	1987	1986	1987	1986	1987
Adams	72,200	70,000	27,600	28,300	3,300	3,000	1,000	900
Asotin	9,100	8,300	4,800	4,300	2/	2/	350	350
Benton	45,600	34,000	15,800	14,500	2,400	2,200	3,900	2,800
Chelan	4,500	4,400	3,000	3,000	100	2/	300	300
Clallam	9,100	8,900	2,600	2,700	1,600	1,300	1,400	1,500
Clark	32,600	32,000	7,000	7,300	8,300	7,300	1,700	1,700
Columbia	7,300	6,900	3,100	3,100	2/	2/	300	300
Cowlitz	9,600	9,400	2,700	2,800	2,000	2,000	800	800
Douglas	17,100	16,800	5,100	5,300	200	200	500	600
Ferry	12,500	11,000	5,600	5,100	2/	2/	500	500
Franklin	120,000	74,000	40,000	32,000	2,600	2,200	1,500	2,000
Garfield	13,800	13,500	7,000	6,700	2/	2/	450	450
Grant	113,000	105,000	31,000	30,000	8,100	6,700	3,300	3,000
Grays Harbor	18,400	13,700	3,000	3,100	6,100	5,600	200	400
Island	7,000	6,900	1,000	1,000	1,300	1,200	200	300
Jefferson	3,700	3,600	700	700	500	500	100	200
King	42,600	41,800	5,600	5,900	18,500	16,900	1,000	1,000
Kitsap	2,000	2,000	500	500	2/	2/	400	1,100
Kittitas	83,800	63,000	25,200	27,600	1,100	1,000	5,300	[illegible]800
Klickitat	31,200	24,500	11,300	11,400	1,300	1,300	2,000	2,500
Lewis	43,400	42,600	8,800	9,300	12,800	12,000	2,400	2,400
Lincoln	47,700	45,200	25,700	25,000	500	200	2,000	1,500
Mason	2,400	2,400	500	500	100	100	100	200
Okanogan	64,900	46,100	31,400	29,000	400	300	2,200	2,300
Pacific	11,400	10,000	4,000	4,300	2,200	2,200	50	250
Pend Oreille	6,800	6,700	2,500	2,600	400	300	300	300
Pierce	32,100	31,500	5,100	5,300	12,500	11,800	800	800
San Juan	3,300	3,200	1,500	1,500	2/	2/	2,400	2,300
Skagit	50,000	44,500	4,600	4,100	18,800	16,200	500	500
Skamania	700	600	300	300	2/	2/	250	250
Snohomish	52,200	50,000	6,000	6,300	23,000	20,500	2,200	1,800
Spokane	43,600	42,600	16,100	16,700	5,900	5,200	2,100	2,000
Stevens	37,100	37,700	12,000	12,400	3,300	3,000	1,500	1,700
Thurston	26,700	26,200	5,600	6,000	9,300	7,900	1,100	1,100
Wahkiakum	6,800	6,700	1,000	1,000	2,200	2,000	100	200
Walla Walla	54,500	47,600	11,800	12,200	1,400	1,200	1,300	1,400
Whatcom	120,000	109,000	9,600	10,400	55,800	50,100	700	700
Whitman	31,300	30,700	14,800	15,400	600	600	1,800	1,800
Yakima	170,000	167,000	43,100	41,400	16,300	15,600	11,000	11,000
Other Counties	-	-	-	-	100	400	-	-
State Total	1,460,000	1,300,000	407,000	399,000	223,000	201,000	58,000	59,000

1/ Cattle and sheep inventories, January 1. 2/ Included in Other Counties.
- Not applicable.

Livestock Inventory by County 1/ (continued)

County	Hogs and Pigs		Hens and Pullets of Laying Age		Broiler Production	
	1985	1986	1985	1986	1985	1986
Adams	1,500	1,400	-	-	-	-
Asotin	400	400	-	-	-	-
Benton	1,800	1,800	-	-	-	-
Chelan	300	300	-	-	-	-
Clallam	200	200	-	-	-	-
Clark	700	700	-	-	1,763,000	1,908,000
Columbia	1,100	1,000	-	-	-	-
Cowlitz	100	100	-	-	1,541,000	1,682,000
Douglas	500	500	-	-	-	-
Ferry	300	200	-	-	-	-
Franklin	3,000	3,100	-	-	-	-
Garfield	1,000	900	-	-	-	-
Grant	6,000	6,200	-	-	-	-
Grays Harbor	200	200	-	-	110,000	125,000
Island	200	200	94,000	92,000	-	-
Jefferson	100	100	-	-	-	-
King	1,000	900	-	-	1,609,000	1,757,000
Kitsap	300	400	-	-	-	-
Kittitas	2,600	2,100	-	-	-	-
Klickitat	600	800	-	-	-	-
Lewis	300	300	283,000	269,000	4,337,000	4,719,000
Lincoln	2,500	2,000	-	-	-	-
Mason	100	100	-	-	-	-
Okanogan	1,200	1,100	-	-	-	-
Pacific	150	150	-	-	-	-
Pend Oreille	500	400	-	-	-	-
Pierce	500	500	978,000	1,051,000	3,208,000	3,489,000
San Juan	50	50	-	-	-	-
Skagit	200	100	434,000	463,000	475,000	527,000
Skamania	50	50	-	-	-	-
Snohomish	500	500	810,000	893,000	4,094,000	4,468,000
Spokane	3,500	3,400	484,000	374,000	-	-
Stevens	3,500	3,400	-	-	-	-
Thurston	400	400	1,272,000	1,117,000	2,890,000	3,162,000
Wahkiakum	50	50	-	-	-	-
Walla Walla	1,100	1,000	-	-	-	-
Whatcom	500	500	194,000	129,000	2,106,000	2,309,000
Whitman	12,000	12,300	-	-	-	-
Yakima	2,000	2,200	245,000	248,000	504,000	552,000
Other Counties	-	-	470,000	465,000	363,000	402,000
State Total	51,000	50,000	5,264,000	5,101,000	23,000,000	25,100,000

1/ Hog and poultry inventories, December 31.
- Not applicable.

Washington Agricultural Statistics Service

Current estimates of the data published in this bulletin are available throughout the year. The following table identifies the types of estimates made for each commodity by month. The current estimates are published in a monthly publication "Agri-Facts". The annual subscription fee for "Agri-Facts" is $10 per year. Reporters for our surveys receive reports free of charge.

Washington Agricultural Statistics Service Reports

A = Acreage, P = Production, X = Estimates Released, PU = Production and Utilization, PDI = Production, Disposition, and Income, S = Stocks.

Commodity	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
Winter Wheat					A,P	A,P	P	P	A,P			A,P
Spring Wheat			A					P	P			A,P
Barley			A			A		P				A,P
Oats			A			A				A,P		A,P
Field Corn			A			A						
For Grain								P				A,P
For Silage												A,P
Dry Edible Beans			A			A		P	P	P	P	A,P
Dry Peas and Lentils										A,P		A,P
Potatoes	S	S	S	S	S		A				P	A,P,S
Hops			S				A,P	P	P,S			P
Hay	S		A		S	A		P		P		A,P
Mint												A,P
Grain Stocks			S			S			S			S
Apples							P,PU	P		P		PU
Apricots						P	P					PU
Cherries, Sweet						P	P		PU			PU
Grapes								P	P	P		PU
Peaches						P	P	P				PU
Pears, Bartlett						P	P	P	P			PU
Pears, Other							P	P	P			PU
Prunes								P	P	P		PU
Cranberries								P				AP
Strawberries				A		P			A,P			A,P
Onions: Storage			A				A		P	P		A,P
Non-Storage			A		A		P	P				A,P
Vegetables			A			A,P	P	P	P			A,P
Cattle on Feed	X			X			X			X		
Cattle Inventory & Calf Crop	X			PDI								
Milk Production	X	X	X	X	X	X	X	X	X	X	X	X
Manufactured Dairy Products	X	X	X	X	X	X	X	X	X	X	X	X
Sheep Inventory & Lamb Crop	X			PDI								
Wool Production			X									
Hog Inventory & Pig Crop				PDI								X
Livestock Slaughter	X	X	X	X	X	X	X	X	X	X	X	X
Egg Production	X	X	X	X	X	X	X	X	X	X	X	X
Hatchery and Broilers				PDI								
Bees and Honey		X										
Mink								X				
Farm Employment & Wage Rates				X			X			X		
Farm Numbers							X					
Prices Received by Farmers	X	X	X	X	X	X	X	X	X	X	X	X
Prices Paid by Farmers	X			X			X			X		

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